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(54) Title: SYSTEM AND METHOD FOR PROVIDING A MESSAGING APPLICATION PROGRAM INTERFACE

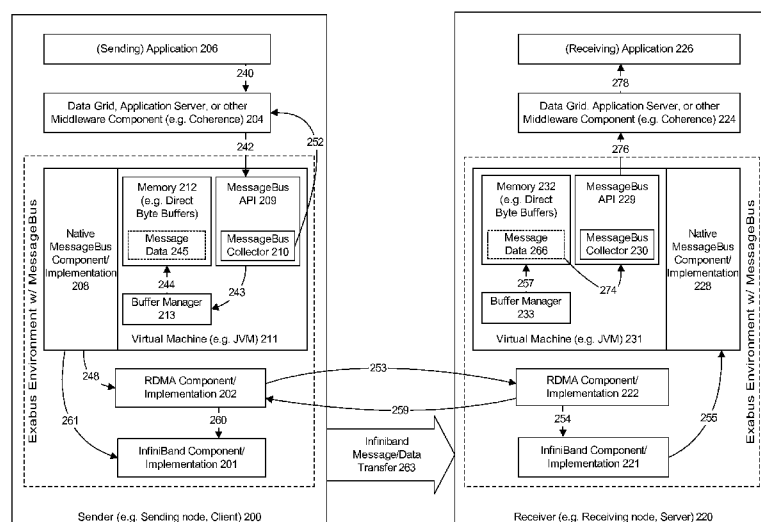


FIGURE 3

(57) Abstract: A system and method for providing a message bus component or version thereof (referred to herein as an implementation), and a messaging application program interface, for use in an enterprise data center, middleware machine system, or similar environment that includes a plurality of processor nodes together with a high-performance communication fabric (or communication mechanism) such as InfiniBand. In accordance with an embodiment, the messaging application program interface enables features such as asynchronous messaging, low latency, and high data throughput, and supports the use of in-memory data grid, application server, and other middleware components.



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**SYSTEM AND METHOD FOR PROVIDING A MESSAGING
APPLICATION PROGRAM INTERFACE**

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Claim of Priority:

[0001] This application claims the benefit of priority to U.S. Provisional Patent Application
15 titled "SYSTEM AND METHOD FOR PROVIDING A MESSAGING API FOR USE IN A MIDDLEWARE MACHINE SYSTEM", Application No. 61/486,672, filed on May 16, 2011; U.S. Provisional Patent Application titled "SYSTEM AND METHOD FOR PROVIDING A MESSAGING API FOR USE IN A MIDDLEWARE MACHINE SYSTEM", Application No. 61/541,961, filed on September 30, 2011; and U.S. Provisional Patent Application titled "SYSTEM AND METHOD
20 FOR PROVIDING A MESSAGING API FOR USE IN A MIDDLEWARE MACHINE SYSTEM", Application No. 61/646,826, filed on May 14, 2012; each of which above applications are herein incorporated by reference.

Field of Invention:

25 [0002] The invention is generally related to enterprise data centers and middleware, and is particularly related to a system and method for providing a messaging application program interface, for use in an enterprise data center, middleware machine system, or similar environment.

30 **Background:**

[0003] Modern high-performance enterprise data centers and middleware machine systems, such as Oracle's Exadata and Exalogic computer appliances, combine computer hardware and middleware software components that are engineered to work closely together. For example, a typical Exalogic appliance includes a cluster of processor nodes, each running
35 one or more operating systems, virtual machines, application servers, and in-memory data grid software components; together with one or more storage or input/output nodes; all communicating with one another over high-speed communication fabrics.

[0004] In a multiple-node environment, such as an Exalogic-based environment, communicating efficiently between the multiple nodes and the software components executing

thereon is an important factor in determining overall system performance. To address this, technologies such as InfiniBand can be used to provide a communication fabric between the nodes, which in turn delivers high data throughput, low latency, quality of service, failover, and scalability. These are the types of computing environments in which embodiments of the invention can be used.

Summary:

[0005] Disclosed herein is a system and method for providing a message bus component or version thereof (referred to herein as an implementation), and a messaging application program interface, for use in an enterprise data center, middleware machine system, or similar environment that includes a plurality of processor nodes together with a high-performance communication fabric (or communication mechanism) such as InfiniBand. In accordance with an embodiment, the messaging application program interface enables features such as asynchronous messaging, low latency, and high data throughput, and supports the use of in-memory data grid, application server, and other middleware components.

Brief Description of the Figures:

[0006] **Figure 1** illustrates an enterprise data center or middleware machine system, such as an Exalogic appliance, which includes a plurality of processor nodes in communication with one another via a communication fabric such as InfiniBand, in accordance with an embodiment.

[0007] **Figure 2** illustrates a system for providing a message bus component/implementation and a messaging application program interface for use with an enterprise data center or middleware machine system, such as an Exalogic appliance, in accordance with an embodiment.

[0008] **Figure 3** illustrates the use of a messaging application program interface, in accordance with an embodiment.

[0009] **Figure 4** illustrates the use of a message bus component/implementation and a messaging application program interface, including remote direct memory access, in accordance with an embodiment.

[00010] **Figure 5** illustrates a method of providing and using a message bus component/implementation and a messaging application program interface with an enterprise data center or middleware machine system, such as an Exalogic appliance, in accordance with an embodiment.

Detailed Description:

[00011] As described above, high-performance enterprise data centers and middleware

machine systems, such as Oracle's Exadata and Exalogic appliances, combine hardware and middleware software components that are engineered to work closely together. For example, a typical Exalogic appliance can include a cluster of processor nodes, each running one or more operating systems, virtual machines, application servers, and in-memory data grid software components; together with one or more storage or input/output (I/O) nodes; all communicating with one another over InfiniBand.

[00012] To further improve both usability and performance in such environments, disclosed herein is a system and method for providing a message bus component or version thereof (referred to herein as an implementation), and a messaging application program interface (API), for use in an enterprise data center, middleware machine system, or similar environment. In accordance with an embodiment, the messaging API supports the use and increases performance of in-memory data grid components (e.g., Oracle Coherence), application server components (e.g., Oracle WebLogic), and other middleware components.

[00013] Generally described, an Exalogic environment includes one or more Exalogic appliances. Each Exalogic appliance is an enterprise-level computer system that can be provisioned in a variety of different rack configurations utilizing, e.g., SPARC, X86 or other microprocessors. A typical Exalogic configuration includes a plurality of hot-swappable processor nodes and high-performance disk storage subsystems, coupled with a high-bandwidth InfiniBand fabric (or communication mechanism) that enables communication between the software, input/output (I/O), and other components within each node, between different nodes within a particular appliance, and between nodes distributed over two or more different appliances.

[00014] Exalogic configurations are designed to be fully redundant, with no single point of failure. In addition to providing an extremely fast, high data throughput interconnection between the hardware components, communication fabrics such as InfiniBand also allow for scaling, application isolation, and elasticity. All of the components with a particular Exalogic environment, including those located within a single appliance and within multiple appliances forming part of the same environment, essentially appear and operate together as a single, high-performance, computer system.

[00015] In accordance with an embodiment, referred to herein as Exabus, a message bus implementation and a messaging API (referred to herein as MessageBus) can be provided. Embodiments of the messaging API can be used as a general purpose messaging interface, and are particularly useful when used in combination with, e.g., Coherence or WebLogic components, as part of an Exalogic environment.

[00016] **Figure 1** illustrates an enterprise data center or middleware machine system, such as an Exalogic appliance, which includes a plurality of processor nodes in communication

with one another via a communication fabric such as InfiniBand, in accordance with an embodiment.

[00017] As shown in Figure 1, a typical Exalogic appliance 100 includes a plurality of rack components 102, 103, 104, 105, such as processor nodes, I/O nodes, or high-performance disk subsystems. Typically, each Exalogic processor node 106 includes a computer hardware 107 (e.g., a plurality of 64-bit processors with high performance large memory, networking I/O, and firmware) and an InfiniBand subsystem 108 that provides InfiniBand connectivity. Each processor node also supports a software environment 112 that, depending on the particular needs of an organization, can be provisioned with a variety of different application server instances or other software components.

[00018] For example, as illustrated in Figure 1, in accordance with an embodiment, a first application server instance 114 can comprise a virtual machine 116 (e.g., Hotspot), an operating system 120 (e.g., Linux), a virtualization layer 124 (e.g., JRockit), and an application server 128 (e.g., WebLogic). A second application server instance 115 can comprise a different virtual machine 118 (e.g., Oracle VM), a different operating system 122 (e.g., Solaris), a different virtualization layer and tools 126 (e.g., Oracle Virtual Assembly Builder, OVAB), and in the example shown, both an in-memory data grid layer 130 (e.g., Coherence), and an application server 132 (e.g., WebLogic).

[00019] The particular types and arrangement of server instances and software components shown in Figure 1 are provided for purposes of illustration. In accordance with other embodiments, different types and arrangements of server instances and software components can be used, depending on the particular needs of an organization.

[00020] In accordance with an embodiment, each of the application server instances within an Exalogic environment can communicate with one another, with its own hardware or processor node, and with other hardware or processor nodes, using an integration component 140, such as an Exalogic integration suite and/or Exabus and the message bus implementation and messaging API it provides. In accordance with an embodiment, Exabus also includes support for InfiniBand, and Remote Direct Memory Access (RDMA), and can be optimized for high data throughput and low latency between nodes and components executing thereon, as described in further detail below.

[00021] **Figure 2** illustrates a system for providing a message bus implementation and a messaging API for use with an enterprise data center or middleware machine system, such as an Exalogic appliance, in accordance with an embodiment.

[00022] As shown in Figure 2, each or a selection of the processor nodes 148 in the Exalogic appliance can include a computer hardware 150, together with an Exabus environment which, as further shown in Figure 2, can include an Exabus InfiniBand

component/implementation 152, an Exabus RDMA component/implementation 154, and an Exabus API 160.

[00023] In accordance with an embodiment, the Exabus API can be extended to include several variants, such as, e.g., a MessageBus API 162 and a Sockets Direct Protocol (SDP) API 163, which can then be selected to best address the particular needs of an organization. In accordance with an embodiment, the MessageBus API can also be extended to include several variants such as, e.g., a native MessageBus implementation 164, or another MessageBus implementation 166, which again can then be selected to best address the particular needs of an organization. The Exabus environment, together with its API's, enables hardware nodes, middleware components and applications executing thereon to communicate efficiently with one another via a communication fabric such as InfiniBand, including those components and applications located within a particular appliance, or distributed over multiple appliances.

[00024] For example, in accordance with the embodiment illustrated in Figure 2, an in-memory data grid component (e.g., Coherence) 170, an application server component (e.g., WebLogic) 172, and applications executing thereon, can communicate with one another, and with other nodes and other software components and applications, using Exabus. As another example, a WebLogic application server component can run atop, e.g., Coherence 178, and can use Coherence's functionality to access Exabus and thence communicate with other applications.

[00025] As further illustrated in Figure 2, in accordance with an embodiment, other transaction processing systems (e.g., Tuxedo) 174, and other applications, e.g., Linux or Solaris applications 176, can similarly communicate with one another and with other processor nodes and other software components and applications using Exabus, including, where appropriate, the use of additional components such as Transmission Control Protocol/Internet Protocol (TCP/IP) 156, Ethernet over InfiniBand (EoIB) 157, and IP over InfiniBand (IPoIB) 168 components.

[00026] The types and arrangement of the various Exabus components shown in Figure 2, including the API's, and the in-memory data grid and application server components that use those API's, are provided for purposes of illustration. In accordance with other embodiments, different Exabus configurations and types and arrangements of components can be used, depending on the particular needs of an organization.

[00027] **Figure 3** illustrates the use of a messaging API, in accordance with an embodiment. As shown in Figure 3, a sender 200 (e.g., a sending node acting as a client) includes an Exabus environment having an InfiniBand component/implementation 201, an RDMA component/implementation 202, a native MessageBus component/implementation 208, and a MessageBus API 209.

[00028] In accordance with an embodiment, the native MessageBus implementation includes a collector 210, for collecting events as they occur, and surfacing those events to the application tier. In accordance with an embodiment, the collector can be automatically injected into the MessageBus when an application environment (e.g., Coherence) makes use of the bus.

5 A virtual machine 211, such as a Java Virtual Machine (JVM) includes a buffer manager 213 that maintains system memory in the form of direct byte buffers 212, which in turn are used for storing messages and message data to be transmitted (i.e., sent or received) between nodes or components via InfiniBand. The buffer manager can allocate areas (buffers) of memory within the direct byte buffers, under control of the native MessageBus implementation.

10 **[00029]** As shown in Figure 3, a middleware component, such as an in-memory data grid or application server 204 component, can use the MessageBus to communicate with other middleware components. Similarly, a (sending) application 206 can use the middleware component to communicate with other applications, by sending messages or message data to another (receiving) middleware component and application 226 at a receiver 220 (e.g., a receiving node acting as a server). In each of these scenarios, while it may be used by them, the MessageBus is not itself aware of the sending/receiving middleware components (or applications).

15 **[00030]** As further shown in Figure 3, the receiver can similarly include an Exabus environment having an InfiniBand component/implementation 221, an RDMA component/implementation 222, a native MessageBus component/implementation 228, a MessageBus API 229, a collector 230, a virtual machine 231 (e.g., JVM), direct byte buffers 232, and a buffer manager 233.

20 **[00031]** Depending on the particular needs of an organization, the sender and receiver can be on the same processor node, at different processor nodes within the same Exalogic appliance, or at processor nodes at different Exalogic appliances. Although indicated in Figure 3 as a sender and a receiver, it will be evident that these labels are provided for purposes of illustration. In accordance with an embodiment, the sender can also receive messages from the receiver, and vice versa, such that the sending and receiving nodes and applications may properly be considered peers of one another.

25 **[00032]** In accordance with an embodiment, the MessageBus can be surfaced as an interface, and obtained via a factory class (in one embodiment, the Depot class), which means that a middleware component or application making use of the bus need not be concerned with the underlying bus implementation. For example, as shown in Figure 3, at both the sending and receiving nodes, the applications communicate with the MessageBus API via one or more in-memory data grid, application server or other middleware components, the (end-user) application need not be concerned with the particular underlying messaging implementation and

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messaging API being used. For example, although Figure 3 illustrates the use of the native MessageBus implementation and MessageBus API, in accordance with other embodiments different messaging implementations and API's can be used, e.g., the SDP API, or another MessageBus implementation, without the end-user application having to be re-programmed to take advantage of the new underlying implementation.

[00033] For example, in a Coherence-based environment, Coherence itself need not be aware of the bus implementation. In accordance with an embodiment, the selection of the bus implementation can be expressed in Coherence via the EndPoint name (URL) of each coherence node (i.e., it is part of the coherence configuration). For example, when running with a TCP-based bus the configured EndPoint might be `tmb://192.168.1.1:8000`; however when running on the native MessageBus the configured EndPoint would be `imb://192.168.1.1:8000`. In this example, the first part of the EndPoint name identifies both the protocol as well as the implementation. This data is not interpreted by the application (i.e., in this example Coherence), but is simply passed to the bus Depot for resolution. In response, the Depot will select the appropriate bus implementation. Similarly, a Coherence end-user application will be unaware if the underlying MessageBus API is used to communicate messages or message data via InfiniBand. Instead, the Coherence environment can recognize the transport interface being used, and communicate with it accordingly on behalf of the Coherence end-user application. The end-user application will continue to be aware of any ordering of messages, and will receive notification upon arrival of those messages at a particular recipient, but otherwise will perceive only that its messages are processed faster. The MessageBus API can be further extended to accommodate the particular needs of other software components, e.g., WebLogic or other middleware components.

[00034] In accordance with an embodiment, the MessageBus implementation surfaces any inbound messages through the use of callbacks. This allows a receiving application to be made aware of any inbound message data on a particular thread, but does not require thread polling as with other techniques. This also enables the benefits of InfiniBand's low latency to be provided upwards to the application tier, and also enables the MessageBus API to support both synchronous and asynchronous communication, and confirmed delivery reporting up to the application tier.

[00035] In accordance with an embodiment, the functionality of the virtual machine (e.g., JVM) can be extended such that each virtual machine can read and write directly against its peer's memory over InfiniBand, and so that their direct byte buffers can be registered with the InfiniBand subsystem. These pre-registered buffers can be maintained by the Exabus buffer manager. In accordance with an embodiment, the Java direct byte buffer class can be extended within the JVM to enable the direct byte buffer to automatically register its associated memory

with the InfiniBand subsystem, which can then be used for RDMA-based access.

[00036] At runtime, when a (sending) application wishes to send a message data 240 (in the form of a message, request, etc) to another node and/or (receiving) application, its underlying middleware component (e.g., Coherence) can communicate 242 with the local MessageBus API and the InfiniBand implementation using a set of verbs. Examples of such verbs can include, e.g.: Send a message to peer; Receive a message from peer; Read from peer's memory space; and Write to peer's memory space. In accordance with other embodiments, additional types of verbs can be supported.

[00037] For example, if the sending application wishes to write a message to the receiving application (a typical large message might be 50Mb in size), the sender's buffer manager can be requested 243 to allocate 244 sufficient memory space for the message data 245, which in accordance with an embodiment can be one or more memory buffers within the extended direct byte buffer that is registered locally with the InfiniBand subsystem. The sender can then write the message to the direct byte buffer, and request the MessageBus API to send the message to the destination peer. Optionally, a receipt 252, such as a Java object, can be returned to the sender, which will ultimately notify the sender of a successful delivery.

[00038] As further shown in Figure 3, when the message data has been written to local memory, the native MessageBus implementation creates a small notification 248, describing the message data to be sent and providing a memory location where the message data is stored locally, and communicates that notification 253 to the receiver.

[00039] At the receiver (receiving) application, upon receipt of the notification from the sender, the receiving InfiniBand subsystem instructs 255 the buffer manager to allocate 257 memory space accordingly, and then uses an RDMA-read operation 259 to pull 260, 261, 263 the message from the (sender's) memory space to its (receiver's) memory space. When the operation completes, the receiver will have a copy 266 of the message data in its local memory space. The receiver can then notify the sender to provide its receipt to the (sending) application. At the same time, the receiver can push the message data upwards 274, 276, 278 through the Java space, asynchronously with the sending of the receipt.

[00040] In accordance with an embodiment, those memory buffers that are created for use in storing message data can be retained for subsequent use, and surfaced via the MessageBus, to avoid having to frequently register and deregister the buffers.

[00041] Although the above functionality is described in the context of InfiniBand, in accordance with other embodiments, the MessageBus API need not utilize or be dependent on InfiniBand, but can also accommodate, e.g., Java or HTTP versions of the API, or other communication fabrics, to provide similar asynchronous functionality.

[00042] **Figure 4** illustrates the use of a message bus implementation and a messaging

application program interface, including remote direct memory access, in accordance with an embodiment. As shown in Figure 4, the messaging bus RDMA layer can assume the role of an intermediary between a client (sender) 280 and a server (receiver) 282. In accordance with an embodiment, the sender performs a send operation 284, which results in an RDMA write operation 286 on the receiver side, together with a memory allocation (Alloc) 288. The send then returns. The receiver then issues an RDMA read operation 290, and returns the message to Java 292. Thereafter, the receiver notifies the sender with an RDMA write 294, and a receipt 296 to provide to the sender.

[00043] It will be noted that as soon as the RDMA write operation has been scheduled, the send will immediately return. In the background, the receiver will receive the write on another thread, schedule the RDMA read, and return. As such, the RDMA operations can be thought of as memory copy operations that can be committed by both sides. For example, an RDMA read operation is really a memory copy operation from the sender to the receiver, but it is initiated from the receiver side.

[00044] **Figure 5** illustrates a method of providing and using a message bus implementation and a messaging application program interface with an enterprise data center or middleware machine system, such as an Exalogic appliance, in accordance with an embodiment.

[00045] As shown in Figure 5, at step 302, a datacenter environment or middleware machine system is provided (e.g., an Exalogic appliance) including a plurality of compute and/or I/O nodes, in communication via InfiniBand or similar communication fabric.

[00046] At step 304, an InfiniBand implementation and MessageBus component are provided, including an application program interface for use by application environments (e.g., Coherence applications).

[00047] At step 306, a request is issued by a first application environment (e.g., a sending node, sender) to communicate message data to a second application environment (e.g., a receiving node, receiver).

[00048] At step 308, space is allocated in the memory (e.g., direct byte buffer) of the sending node for storage of the message data, and a notification communicated (e.g., using RDMA) to the receiving node, with the location of the message data.

[00049] At step 310, at the receiving node, a request is issued via the InfiniBand implementation to retrieve the message data from the sending node at the specified memory location.

[00050] At step 312, the result of message data transfer is communicated upwards to the application environment, asynchronously with the sending of a receipt to the sender.

[00051] The present invention may be conveniently implemented using one or more conventional general purpose or specialized digital computer, computing device, machine, or microprocessor, including one or more processors, memory and/or computer readable storage media programmed according to the teachings of the present disclosure. Appropriate software coding can readily be prepared by skilled programmers based on the teachings of the present disclosure, as will be apparent to those skilled in the software art.

[00052] In some embodiments, the present invention includes a computer program product which is a non-transitory storage medium or computer readable medium (media) having instructions stored thereon/in which can be used to program a computer to perform any of the processes of the present invention. The storage medium can include, but is not limited to, any type of disk including floppy disks, optical discs, DVD, CD-ROMs, microdrive, and magneto-optical disks, ROMs, RAMs, EPROMs, EEPROMs, DRAMs, VRAMs, flash memory devices, magnetic or optical cards, nanosystems (including molecular memory ICs), or any type of media or device suitable for storing instructions and/or data.

[00053] The foregoing description of the present invention has been provided for the purposes of illustration and description. It is not intended to be exhaustive or to limit the invention to the precise forms disclosed. Many modifications and variations will be apparent to the practitioner skilled in the art. The embodiments were chosen and described in order to best explain the principles of the invention and its practical application, thereby enabling others skilled in the art to understand the invention for various embodiments and with various modifications that are suited to the particular use contemplated. It is intended that the scope of the invention be defined by the following claims and their equivalence.

[00054] The following Appendix provides software package, class, and other information for implementing a messaging API, in accordance with an embodiment. There is a Class Hierarchy page for all packages, plus a hierarchy for each package. Each hierarchy page contains a list of classes and a list of interfaces. The classes are organized by inheritance structure starting with java.lang.Object. The interfaces do not inherit from java.lang.Object. The Index contains an alphabetic list of all classes, interfaces, constructors, methods, and fields

Packages:

com.oracle.common.base
10 com.oracle.common.collections
com.oracle.common.internal.io
com.oracle.common.internal.net
com.oracle.common.internal.net.socketbus
com.oracle.common.internal.net.ssl
15 com.oracle.common.internal.security
com.oracle.common.io
com.oracle.common.net
com.oracle.common.net.exabus
com.oracle.common.net.exabus.spi
20 com.oracle.common.net.exabus.util
com.oracle.common.util

Classes:

25 AbstractBufferManager
AbstractSocketBus
AbstractSocketBus.BusState
AbstractSocketBus.ConnectionState
AbstractSocketBus.HandshakePhase
30 AbstractStableIterator
Associated
Associator
Bandwidth
Bandwidth.Magnitude
35 Bandwidth.Rate
Binary

BufferedSocketBus
BufferManager
BufferManagers
Buffers
5 BufferSequence
BufferSequenceInputStream
BufferSequenceOutputStream
Bus
ChainedIterator
10 CheckedBufferManager
Collector
Converter
ConverterCollections
ConverterCollections.AbstractConverterEntry
15 ConverterCollections.ConverterCollection
ConverterCollections.ConverterComparator
ConverterCollections.ConverterEntry
ConverterCollections.ConverterEntrySet
ConverterCollections.ConverterEnumerator
20 ConverterCollections.ConverterList
ConverterCollections.ConverterListIterator
ConverterCollections.ConverterMap
ConverterCollections.ConverterSet
ConverterCollections.ConverterSortedMap
25 ConverterCollections.ConverterSortedSet
DaemonThreadFactory
DemultiplexedSocketProvider
Depot
Disposable
30 Driver
Duration
Duration.Magnitude
EndPoint
Event
35 Event.Type
Factory

Hasher
HashSelectionService
HashSelectionService.ServiceFactory
Holder
5 IdentityHasher
InetAddressComparator
InetAddressHasher
InetSocketAddress32
InetSocketAddressComparator
10 InetSocketAddressHasher
InetSocketAddressProvider
InputStreaming
MemoryBus
MemorySize
15 MemorySize.Magnitude
MessageBus
MessageBusTest
MessageBusTest.DemultiplexingCollector
MessageBusTest.EchoBus
20 MessageBusTest.EchoBus.EchoDriver
MessageBusTest.EventProcessor
MessageBusTest.Receipt
MessageBusTest.SkipStream
MessageBusTest.StampedEvent
25 MessageBusTest.Transmitter
MultiBufferMessageEvent
MultiBufferSequence
MultiplexedSocketProvider
MultiplexedSocketProvider.DefaultDependencies
30 MultiplexedSocketProvider.Dependencies
MultiplexedSocketProvider.MultiplexedChannel
MultiplexedSocketProvider.MultiplexedSelector
MultiplexedSocketProvider.MultiplexedSelectorProvider
MultiplexedSocketProvider.MultiplexedServerSocketChannel
35 MultiplexedSocketProvider.MultiplexedSocket
MultiplexedSocketProvider.MultiplexedSocketChannel

MultiplexedSocketProvider.WellKnownSubPorts
MultiProviderSelectionService
NaturalAssociator
NaturalHasher
5 PeerX509TrustManager
PeerX509TrustManagerFactory
Predicate
ResumableSelectionService
ResumableSelectionService.ServiceFactory
10 RunnableSelectionService
SafeSelectionHandler
SdpSocketProvider
SecurityProvider
SegmentedBufferManager
15 SegmentedBufferManager.BufferAllocator
SelectionService
SelectionService.Handler
SelectionServices
SharedBuffer
20 SharedBuffer.Disposer
SimpleDepot
SimpleDepot.DefaultDependencies
SimpleDepot.Dependencies
SimpleEvent
25 SimpleHolder
SingleBufferMessageEvent
SingleBufferSequence
SocketBusDriver
SocketBusDriver.DefaultDependencies
30 SocketBusDriver.Dependencies
SocketMessageBus
SocketProvider
Sockets
SocketSettings
35 SSLSelectorProvider
SSLServerSocket

SSLServerSocketChannel
 SSLSocket
 SSLSocketChannel
 SSLSocketProvider
 5 SSLSocketProvider.DefaultDependencies
 SSLSocketProvider.Dependencies
 TcpSocketProvider
 ThreadLocalRandom
 UnmodifiableSetCollection
 10 UrlEndPoint
 VolatileHolder
 WrapperBufferManager
 WrapperSelector
 WrapperSelector.WrapperSelectableChannel
 15 WrapperSelector.WrapperSelectionKey
 WrapperServerSocket
 WrapperServerSocketChannel
 WrapperSocket
 WrapperSocketChannel

20

Package Hierarchy:

com.oracle.common.base, com.oracle.common.collections, com.oracle.common.internal.io,
 com.oracle.common.internal.net, com.oracle.common.internal.net.socketbus,
 25 com.oracle.common.internal.net.ssl, com.oracle.common.internal.security,
 com.oracle.common.io, com.oracle.common.net, com.oracle.common.net.exabus,
 com.oracle.common.net.exabus.spi, com.oracle.common.net.exabus.util,
 com.oracle.common.util

30

Class Hierarchy:

java.lang.Object
 com.oracle.common.internal.io.AbstractBufferManager (implements
 com.oracle.common.io.BufferManager)
 35 java.nio.channels.spi.AbstractInterruptibleChannel (implements
 java.nio.channels.Channel, java.nio.channels.InterruptibleChannel)

java.nio.channels.SelectableChannel (implements java.nio.channels.Channel)
 java.nio.channels.spi.AbstractSelectableChannel
 java.nio.channels.ServerSocketChannel

5 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedServerSocketChannel
 I (implements
 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedChannel)

com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedServerSocketChannel

10 hannel
 com.oracle.common.internal.net.WrapperServerSocketChannel (implements
 com.oracle.common.internal.net.WrapperSelector.WrapperSelectableChannel)
 com.oracle.common.internal.net.MultiplexedSocketProvider.ListenChannel
 (implements
 15 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedChannel)
 com.oracle.common.internal.net.ssl.SSLServerSocketChannel
 java.nio.channels.SocketChannel (implements java.nio.channels.ByteChannel,
 java.nio.channels.GatheringByteChannel, java.nio.channels.ScatteringByteChannel)
 com.oracle.common.internal.net.WrapperSocketChannel (implements
 20 com.oracle.common.internal.net.WrapperSelector.WrapperSelectableChannel)

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel
 (implements
 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedChannel)

25 com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedSocketChannel
 com.oracle.common.internal.net.ssl.SSLSocketChannel
 com.oracle.common.internal.net.socketbus.AbstractSocketBus (implements
 com.oracle.common.net.exabus.Bus)

30 com.oracle.common.internal.net.socketbus.BufferedSocketBus
 com.oracle.common.internal.net.socketbus.SocketMessageBus (implements
 com.oracle.common.net.exabus.MessageBus)
 com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection (implements
 java.nio.channels.GatheringByteChannel, java.nio.channels.ScatteringByteChannel,

35 com.oracle.common.net.SelectionService.Handler)
 com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

```

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection
    com.oracle.common.collections.AbstractStableIterator<T> (implements
java.util.Enumeration<E>, java.util.Iterator<E>)
5      com.oracle.common.collections.ChainedIterator<T>
    com.oracle.common.io.Bandwidth

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection.WriteBatch
10      com.oracle.common.io.BufferManagers
    com.oracle.common.io Buffers
    com.oracle.common.internal.io.CheckedBufferManager (implements
com.oracle.common.io.BufferManager)
    com.oracle.common.collections.ConverterCollections
15
com.oracle.common.collections.ConverterCollections.AbstractConverterEntry<FK,TK,FV,TV>
> (implements java.util.Map.Entry<K,V>, java.io.Serializable)
    com.oracle.common.collections.ConverterCollections.ConverterEntry<FK,TK,FV,TV>

20      com.oracle.common.collections.ConverterCollections.ConverterEntrySet.ConverterEntry
    com.oracle.common.collections.ConverterCollections.ConverterCollection<F,T>
(implements java.util.Collection<E>, java.io.Serializable)
    com.oracle.common.collections.ConverterCollections.ConverterList<F,T>
(implements java.util.List<E>, java.io.Serializable)
25      com.oracle.common.collections.ConverterCollections.ConverterSet<F,T>
(implements java.io.Serializable, java.util.Set<E>)
    com.oracle.common.collections.ConverterCollections.ConverterSortedSet<F,T>
(implements java.io.Serializable, java.util.SortedSet<E>)
    com.oracle.common.internal.net WrapperSelector.KeySet
30      com.oracle.common.collections.ConverterCollections.ConverterComparator<F,T>
(implements java.util.Comparator<T>, java.io.Serializable)

com.oracle.common.collections.ConverterCollections.ConverterEntrySet<FK,TK,FV,TV>
(implements java.io.Serializable, java.util.Set<E>)
35
com.oracle.common.collections.ConverterCollections.ConverterEntrySet.ConverterIterator

```

```

(implements java.util.Iterator<E>)
    com.oracle.common.collections.ConverterCollections.ConverterEnumerator<F,T>
(implements java.util.Enumeration<E>, java.util.Iterator<E>)
    com.oracle.common.collections.ConverterCollections.ConverterListIterator<F,T>
5  (implements java.util.ListIterator<E>)
    com.oracle.common.collections.ConverterCollections.ConverterMap<FK,TK,FV,TV>
(implements java.util.Map<K,V>, java.io.Serializable)

com.oracle.common.collections.ConverterCollections.ConverterSortedMap<FK,TK,FV,TV>
10 (implements java.io.Serializable, java.util.SortedMap<K,V>)
    com.oracle.common.util.DaemonThreadFactory (implements
java.util.concurrent.ThreadFactory)
    java.util.Dictionary<K,V>
    java.util.Hashtable<K,V> (implements java.lang.Cloneable, java.util.Map<K,V>,
15 java.io.Serializable)
    java.util.Properties
    java.security.Provider
    com.oracle.common.internal.security.SecurityProvider
    com.oracle.common.util.Duration
20 com.oracle.common.internal.net.HashSelectionService (implements
com.oracle.common.net.SelectionService)
    com.oracle.common.internal.net.HashSelectionService.ServiceFactory (implements
com.oracle.common.base.Factory<T>)
    com.oracle.common.base.IdentityHasher<V> (implements
25 com.oracle.common.base.Hasher<V>)
    com.oracle.common.net.InetAddressComparator (implements java.util.Comparator<T>)
    com.oracle.common.net.InetAddressHasher (implements
com.oracle.common.base.Hasher<V>)
    com.oracle.common.net.InetSocketAddressComparator (implements
30 java.util.Comparator<T>)
    com.oracle.common.net.InetSocketAddressHasher (implements
com.oracle.common.base.Hasher<V>)
    com.oracle.common.net.InetSocketAddressProvider (implements
com.oracle.common.net.SocketProvider)
35 com.oracle.common.internal.net.DemultiplexedSocketProvider
    com.oracle.common.net.SdpSocketProvider

```

com.oracle.common.net.TcpSocketProvider
java.io.InputStream (implements java.io.Closeable)
com.oracle.common.io.BufferSequenceInputStream (implements java.io.DataInput)
com.oracle.common.io.MemorySize
5 com.oracle.common.net.exabus.util.MessageBusTest
com.oracle.common.net.exabus.util.MessageBusTest.DemultiplexingCollector
(implements com.oracle.common.base.Collector<V>)
com.oracle.common.net.exabus.util.MessageBusTest.EchoBus (implements
com.oracle.common.net.exabus.MessageBus)
10 com.oracle.common.net.exabus.util.MessageBusTest.EchoBus.EchoDriver (implements
com.oracle.common.net.exabus.spi.Driver)
com.oracle.common.net.exabus.util.MessageBusTest.Receipt
com.oracle.common.net.exabus.util.MessageBusTest.StampedEvent (implements
com.oracle.common.net.exabus.Event)
15 com.oracle.common.io.MultiBufferSequence (implements
com.oracle.common.io.BufferSequence)
com.oracle.common.internal.net.socketbus.MultiBufferMessageEvent (implements
com.oracle.common.net.exabus.Event)
com.oracle.common.internal.net.MultiplexedSocketProvider (implements
20 com.oracle.common.net.SocketProvider)
com.oracle.common.internal.net.MultiplexedSocketProvider.DefaultDependencies
(implements com.oracle.common.internal.net.MultiplexedSocketProvider.Dependencies)
com.oracle.common.internal.net.MultiProviderSelectionService (implements
com.oracle.common.net.SelectionService)
25 com.oracle.common.base.NaturalAssociator (implements
com.oracle.common.base.Associator)
com.oracle.common.base.NaturalHasher<V> (implements
com.oracle.common.base.Hasher<V>)
java.io.OutputStream (implements java.io.Closeable, java.io.Flushable)
30 com.oracle.common.io.BufferSequenceOutputStream (implements
java.io.DataOutput)
com.oracle.common.net.exabus.util.MessageBusTest.SkipStream
com.oracle.common.internal.security.PeerX509TrustManager (implements
javax.net.ssl.X509TrustManager)
35 com.oracle.common.internal.net.ResumableSelectionService.ServiceFactory
(implements com.oracle.common.base.Factory<T>)

com.oracle.common.internal.net.RunnableSelectionService (implements
java.lang Runnable, com.oracle.common.net.SelectionService)
com.oracle.common.internal.net.ResumableSelectionService
com.oracle.common.net.SafeSelectionHandler<C> (implements
5 com.oracle.common.net.SelectionService.Handler)
com.oracle.common.internal.net.socketbus.AbstractSocketBus.AcceptHandler
com.oracle.common.internal.net.socketbus.AbstractSocketBus.HandshakeHandler
com.oracle.common.internal.net.MultiplexedSocketProvider.Listener
com.oracle.common.internal.net.MultiplexedSocketProvider.Listener.Switcher
10 (implements java.lang Runnable)
com.oracle.common.internal.io.SegmentedBufferManager (implements
com.oracle.common.io.BufferManager, com.oracle.common.base.Disposable)
java.nio.channels.SelectionKey
com.oracle.common.internal.net WrapperSelector WrapperSelectionKey
15 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel.SocketSelectionKey
com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey
com.oracle.common.net.SelectionServices
20 java.nio.channels.Selector
java.nio.channels.spi.AbstractSelector
com.oracle.common.internal.net WrapperSelector
com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelector
java.nio.channels.spi.SelectorProvider
25 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelectorProvider
com.oracle.common.internal.net.ssl.SSLSelectorProvider
java.net.ServerSocket
com.oracle.common.internal.net WrapperServerSocket
30 com.oracle.common.internal.net.ssl.SSLServerSocket
com.oracle.common.internal.net.socketbus.SharedBuffer (implements
com.oracle.common.base.Disposable, com.oracle.common.base.Holder<V>)
com.oracle.common.internal.net.socketbus.SharedBuffer.Segment (implements
com.oracle.common.base.Disposable, com.oracle.common.base.Holder<V>)
35 com.oracle.common.net.exabus.util.SimpleDepot (implements
com.oracle.common.net.exabus.Depot)

com.oracle.common.net.exabus.util.SimpleDepot.DefaultDependencies (implements
com.oracle.common.net.exabus.util.SimpleDepot.Dependencies)
com.oracle.common.net.exabus.util.SimpleEvent (implements
com.oracle.common.net.exabus.Event)
5 com.oracle.common.base.SimpleHolder<V> (implements
com.oracle.common.base.Holder<V>)
com.oracle.common.io.SingleBufferSequence (implements
com.oracle.common.io.BufferSequence)
com.oracle.common.internal.net.socketbus.SingleBufferMessageEvent (implements
10 com.oracle.common.net.exabus.Event)
java.net.Socket
com.oracle.common.internal.net WrapperSocket

com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedSocket
15 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocket
com.oracle.common.internal.net.ssl.SSLSocket
java.net.SocketAddress (implements java.io.Serializable)
com.oracle.common.net.InetSocketAddress32
com.oracle.common.internal.net.socketbus.SocketBusDriver (implements
20 com.oracle.common.net.exabus.spi.Driver)
com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies
(implements com.oracle.common.internal.net.socketbus.SocketBusDriver.Dependencies)

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadB
25 atch (implements com.oracle.common.base.Disposable)

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadB
atch.SharedBufferDisposer (implements
com.oracle.common.internal.net.socketbus.SharedBuffer.Disposer)
30 com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadB
atch.TaskEvent (implements com.oracle.common.net.exabus.Event)
com.oracle.common.net.Sockets
com.oracle.common.net.SocketSettings (implements java.net.SocketOptions)
35 com.oracle.common.net.SSLSocketProvider (implements
com.oracle.common.net.SocketProvider)

com.oracle.common.net.SSLSocketProvider.DefaultDependencies (implements
 com.oracle.common.net.SSLSocketProvider.Dependencies)
 java.lang.Thread (implements java.lang.Runnable)
 com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor (implements
 5 java.lang.Runnable)
 com.oracle.common.net.exabus.util.MessageBusTest.Transmitter
 com.oracle.common.util.ThreadLocalRandom
 javax.net.ssl.TrustManagerFactorySpi
 com.oracle.common.internal.security.PeerX509TrustManagerFactory
 10 com.oracle.common.collections.UnmodifiableSetCollection<E> (implements
 java.util.Set<E>)
 com.oracle.common.net.exabus.util.UrlEndPoint (implements
 com.oracle.common.net.exabus.EndPoint)
 com.oracle.common.base.VolatileHolder<V> (implements
 15 com.oracle.common.base.Holder<V>)
 com.oracle.common.internal.io WrapperBufferManager (implements
 com.oracle.common.io.BufferManager)

20 **Interface Hierarchy:**

com.oracle.common.base.Associated
 com.oracle.common.base.Associator
 com.oracle.common.base.Binary
 com.oracle.common.net.exabus.Bus
 25 com.oracle.common.net.exabus.MemoryBus
 com.oracle.common.net.exabus.MessageBus
 com.oracle.common.base.Collector<V>
 com.oracle.common.base.Converter<F,T>
 com.oracle.common.net.exabus.Depot
 30 com.oracle.common.base.Disposable
 com.oracle.common.io.BufferManager
 com.oracle.common.io.BufferSequence
 com.oracle.common.net.exabus.Event
 com.oracle.common.net.exabus.spi.Driver
 35 com.oracle.common.net.exabus.EndPoint
 com.oracle.common.base.Factory<T>

com.oracle.common.base.Hasher<V>
 com.oracle.common.base.Holder<V>
 com.oracle.common.io.InputStreaming
 com.oracle.common.internal.net.MultiplexedSocketProvider.Dependencies
 5 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedChannel
 com.oracle.common.base.Predicate<T>
 com.oracle.common.internal.io.SegmentedBufferManager.BufferAllocator
 com.oracle.common.net.SelectionService
 com.oracle.common.net.SelectionService.Handler
 10 com.oracle.common.internal.net.socketbus.SharedBuffer.Disposer
 com.oracle.common.net.exabus.util.SimpleDepot.Dependencies
 com.oracle.common.internal.net.socketbus.SocketBusDriver.Dependencies
 com.oracle.common.net.SocketProvider
 com.oracle.common.net.SSLSocketProvider.Dependencies
 15 com.oracle.common.internal.net.WrapperSelector.WrapperSelectableChannel

Enum Hierarchy:

java.lang.Object
 20 java.lang.Enum<E> (implements java.lang.Comparable<T>, java.io.Serializable)
 com.oracle.common.net.exabus.Event.Type
 com.oracle.common.internal.net.socketbus.AbstractSocketBus.ConnectionState
 com.oracle.common.internal.net.socketbus.AbstractSocketBus.HandshakePhase
 com.oracle.common.internal.net.socketbus.AbstractSocketBus.BusState
 25 com.oracle.common.io.MemorySize.Magnitude
 com.oracle.common.io.Bandwidth.Magnitude
 com.oracle.common.io.Bandwidth.Rate
 com.oracle.common.util.Duration.Magnitude
 com.oracle.common.internal.net.MultiplexedSocketProvider.WellKnownSubPorts
 30

Class Index:

AbstractBufferManager - Class in com.oracle.common.internal.io
 AbstractBufferManager provides a skeletal implementation of the BufferManager interface.
 35 AbstractBufferManager() - Constructor for class
 com.oracle.common.internal.io.AbstractBufferManager

AbstractSocketBus - Class in com.oracle.common.internal.net.socketbus

AbstractSocketBus provides a common base class for Socket based Bus implementations.

AbstractSocketBus(SocketBusDriver, UrlEndPoint) - Constructor for class

com.oracle.common.internal.net.socketbus.AbstractSocketBus

- 5 Create an AbstractSocketBus around a ServerSocketChannel

AbstractSocketBus.AcceptHandler - Class in com.oracle.common.internal.net.socketbus

AcceptHandler accepts new client connections.

AbstractSocketBus.AcceptHandler(ServerSocketChannel) - Constructor for class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.AcceptHandler

- 10 Construct an AcceptHandler for the bus.

AbstractSocketBus.BusState - Enum in com.oracle.common.internal.net.socketbus

BusState represents the various states a Bus may be in.

AbstractSocketBus.Connection - Class in com.oracle.common.internal.net.socketbus

Connection contains the state associated with the connection to each connected peer.

- 15 AbstractSocketBus.Connection(UrlEndPoint) - Constructor for class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

Construct a Connection for the specified EndPoint.

AbstractSocketBus.ConnectionState - Enum in com.oracle.common.internal.net.socketbus

ConnectionState represents the state of the underlying Connection.

- 20 AbstractSocketBus.HandshakeHandler - Class in com.oracle.common.internal.net.socketbus

HandshakeHandler handles the initial transmissions on a SocketChannel as two buses handshake.

AbstractSocketBus.HandshakeHandler(SocketChannel, AbstractSocketBus.Connection) - Constructor for class

- 25 com.oracle.common.internal.net.socketbus.AbstractSocketBus.HandshakeHandler

Construct a HandshakeHandler for the give SocketChannel.

AbstractSocketBus.HandshakePhase - Enum in com.oracle.common.internal.net.socketbus

HandshakePhase represents the state of the handshake protocol.

AbstractStableIterator<T> - Class in com.oracle.common.collections

- 30 An abstract Iterator implementation that is stable between the

AbstractStableIterator.hasNext() and AbstractStableIterator.next() methods, and between the AbstractStableIterator.next() and AbstractStableIterator.remove() methods.

AbstractStableIterator() - Constructor for class

com.oracle.common.collections.AbstractStableIterator

- 35 Default constructor.

accept() - Method in class

com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedServerSocketChannel

accept() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.ListenChannel

5 accept() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.Listener.Switcher

Accept the channel and queue it to the appropriate MultiplexedServerSocketChannel

accept() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedServerSocketChannel

10 I

accept() - Method in class com.oracle.common.internal.net.ssl.SSLServerSocket

accept() - Method in class com.oracle.common.internal.net.ssl.SSLServerSocketChannel

accept() - Method in class com.oracle.common.internal.net WrapperServerSocket

accept() - Method in class com.oracle.common.internal.net WrapperServerSocketChannel

15 acquire(int) - Method in class com.oracle.common.internal.io.CheckedBufferManager

Acquire a free ByteBuffer.

acquire(int) - Method in class com.oracle.common.internal.io.SegmentedBufferManager

acquire(int) - Method in class com.oracle.common.internal.io WrapperBufferManager

acquire(int) - Method in interface com.oracle.common.io.BufferManager

20 Acquire a free ByteBuffer.

acquirePref(int) - Method in class com.oracle.common.internal.io.AbstractBufferManager

Acquire a free ByteBuffer, of any size.

acquirePref(int) - Method in class com.oracle.common.internal.io.CheckedBufferManager

Acquire a free ByteBuffer, of any size.

25 acquirePref(int) - Method in class com.oracle.common.internal.io.SegmentedBufferManager

acquirePref(int) - Method in class com.oracle.common.internal.io WrapperBufferManager

acquirePref(int) - Method in interface com.oracle.common.io.BufferManager

Acquire a free ByteBuffer, of any size.

acquireSum(int) - Method in class com.oracle.common.internal.io.AbstractBufferManager

30 Acquire a free ByteBuffer, of any size.

acquireSum(int) - Method in class com.oracle.common.internal.io.CheckedBufferManager

Acquire a free ByteBuffer, of any size.

acquireSum(int) - Method in class com.oracle.common.internal.io.SegmentedBufferManager

acquireSum(int) - Method in class com.oracle.common.internal.io WrapperBufferManager

35 acquireSum(int) - Method in interface com.oracle.common.io.BufferManager

Acquire a free ByteBuffer, of any size.

add(V) - Method in interface com.oracle.common.base.Collector

Notify the collector of a item of interest.

add(T) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterCollection

5 add(Map.Entry<TK, TV>) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet

add(int, T) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterList

add(T) - Method in class

10 com.oracle.common.collections.ConverterCollections.ConverterListIterator

add(E) - Method in class com.oracle.common.collections.UnmodifiableSetCollection

add(SocketChannel) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedServerSocketChannel

15 Add an SocketChannel to the accept queue

add(Event) - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.DemultiplexingCollector

Notify the collector of a item of interest.

add(Event) - Method in class

20 com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

Add an event for the processor to handle.

addAll(Collection<? extends T>) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterCollection

addAll(Collection<? extends Map.Entry<TK, TV>>) - Method in class

25 com.oracle.common.collections.ConverterCollections.ConverterEntrySet

addAll(int, Collection<? extends T>) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterList

addAll(Collection<? extends E>) - Method in class

com.oracle.common.collections.UnmodifiableSetCollection

30 addEvent(Event) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus

Add the specified Event to the Event Collector.

addFlushable(AbstractSocketBus.Connection) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus

35 Add a Connection to the set of connections awaiting a flush.

addPendingKey(SelectionKey) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelector

Add the ready SelectionKey to the pending set.

addReceipt(Object) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

5 Track a receipt associated with this peer.

addWriter() - Method in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection.WriteBatch

Add a thread to the set of concurrent writers.

10 advance() - Method in class com.oracle.common.collections.AbstractStableIterator

Advance to the next object.

advance() - Method in class com.oracle.common.collections.ChainedIterator

Advance to the next object.

advance(ByteBuffer[], int, int) - Method in class

15 com.oracle.common.internal.net.ssl.SSLSocketChannel

Identify the distance to the next buffer which has available space.

ALGORITHM - Static variable in class

com.oracle.common.internal.security.PeerX509TrustManager

The algorithm used by this TrustManager.

20 allocate(int) - Method in interface

com.oracle.common.internal.io.SegmentedBufferManager.BufferAllocator

Allocate and return buffer of the specified size.

append(ByteBuffer, boolean) - Method in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection.WriteBatch

25 ch

Append the specified ByteBuffer to the batch.

append(BufferSequence) - Method in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection.WriteBatch

30 Append the specified BufferSequence to the batch.

append(BufferedSocketBus.BufferedConnection.WriteBatch) - Method in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection.WriteBatch

35 Append the specified WriteBatch to this WriteBatch

applyDriverProperties(String, Properties, SocketBusDriver.DefaultDependencies) - Static method in class com.oracle.common.net.exabus.util.MessageBusTest

Configure a SocketBusDriver from the provided properties.

as(Bandwidth.Magnitude) - Method in class com.oracle.common.io.Bandwidth

Obtain the Bandwidth as a value in the specified Bandwidth.Magnitude.

as(Bandwidth.Rate) - Method in class com.oracle.common.io.Bandwidth

5 Obtain the Bandwidth as a value in the specified Bandwidth.Rate.

as(MemorySize.Magnitude) - Method in class com.oracle.common.io.MemorySize

Obtain the MemorySize as a value in the specified MemorySize.Magnitude.

as(Duration.Magnitude) - Method in class com.oracle.common.util.Duration

Obtains the Duration in the specified Duration.Magnitude (rounded down).

10 Associated - Interface in com.oracle.common.base

The Associated interface facilitates the creation of a very generic equivalence relation between different objects and allows to group them based on the equality of the "association key" object returned by the Associated.getAssociatedKey() method.

Associator - Interface in com.oracle.common.base

15 The Associator interface facilitates the creation of a very generic equivalence relation between different objects and allows to group them based on the equality of the "association key" object returned by the Associator.getAssociatedKey(java.lang.Object) method.

attach() - Method in class com.oracle.common.internal.net.socketbus.SharedBuffer

Increment the reference count.

20 available() - Method in class com.oracle.common.io.BufferSequenceInputStream

available() - Method in interface com.oracle.common.io.InputStreaming

Returns the number of bytes that can be read (or skipped over) from this input stream without causing a blocking I/O condition to occur.

25

Bandwidth - Class in com.oracle.common.io

A Bandwidth represents an amount of memory (measured in bits) being transferred per second.

Bandwidth(String) - Constructor for class com.oracle.common.io.Bandwidth

30 Construct a Bandwidth by parsing the specified String.

Bandwidth(double, Bandwidth.Rate) - Constructor for class com.oracle.common.io.Bandwidth

Construct a Bandwidth given a specified units and Bandwidth.Rate.

Bandwidth(int, Bandwidth.Rate) - Constructor for class com.oracle.common.io.Bandwidth

35 Construct a Bandwidth given a specified units and Bandwidth.Rate.

Bandwidth(long, Bandwidth.Rate) - Constructor for class com.oracle.common.io.Bandwidth

Construct a Bandwidth give a specified number of bytes.

Bandwidth.Magnitude - Enum in com.oracle.common.io

A Bandwidth.Magnitude of Bandwidth.

Bandwidth.Rate - Enum in com.oracle.common.io

5 A Bandwidth.Rate of a Bandwidth per second.

Binary - Interface in com.oracle.common.base

A thread-safe immutable binary object.

bind(SocketAddress) - Method in class

com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedSocket

10 bind(SocketAddress) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocket

bind(SocketAddress) - Method in class

com.oracle.common.internal.net.WrapperServerSocket

bind(SocketAddress, int) - Method in class

15 com.oracle.common.internal.net.WrapperServerSocket

bind(SocketAddress) - Method in class com.oracle.common.internal.net.WrapperSocket

BUF_MIN_SIZE - Static variable in class

com.oracle.common.internal.io.SegmentedBufferManager

The absolute minimum ByteBuffer size supported by this implementation.

20 BufferedSocketBus - Class in com.oracle.common.internal.net.socketbus

BufferedSocketBus adds write buffering to the AbstractSocketBus.

BufferedSocketBus(SocketBusDriver, UrlEndPoint) - Constructor for class

com.oracle.common.internal.net.socketbus.BufferedSocketBus

Construct a BufferedSocketMessageBus.

25 BufferedSocketBus.BufferedConnection - Class in

com.oracle.common.internal.net.socketbus

BufferedConnection implements a reliable stream connection with I/O offloading.

BufferedSocketBus.BufferedConnection(UrlEndPoint) - Constructor for class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

30 Create a BufferedConnection for the specified peer.

BufferedSocketBus.BufferedConnection.WriteBatch - Class in

com.oracle.common.internal.net.socketbus

WriteBatch is used to encapsulate an array of ByteBuffers which are to be written to the connection.

35 BufferedSocketBus.BufferedConnection.WriteBatch() - Constructor for class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection.WriteBat

ch

BufferManager - Interface in com.oracle.common.io

BufferManager defines a mechanism for efficient buffer re-use.

BufferManagers - Class in com.oracle.common.io

5 BufferManagers provides access to pre-defined system-wide managers.

BufferManagers() - Constructor for class com.oracle.common.io.BufferManagers

Buffers - Class in com.oracle.common.io

Buffers contains a number of Buffer related helpers.

Buffers() - Constructor for class com.oracle.common.io.Buffers

10 BufferSequence - Interface in com.oracle.common.io

BufferSequence represents a series of ByteBuffers.

BufferSequenceInputStream - Class in com.oracle.common.io

An InputStream implementation on top of a BufferSequence.

BufferSequenceInputStream(BufferSequence) - Constructor for class

15 com.oracle.common.io.BufferSequenceInputStream

Construct a BufferSequenceInputStream over a BufferSequence object.

BufferSequenceOutputStream - Class in com.oracle.common.io

BufferSequenceOutputStream is an implementation of an OutputStream which which produces a BufferSequence.

20 BufferSequenceOutputStream(BufferManager) - Constructor for class
com.oracle.common.io.BufferSequenceOutputStream

Construct a BufferSequenceOutputStream.

BufferSequenceOutputStream(BufferManager, int) - Constructor for class
com.oracle.common.io.BufferSequenceOutputStream

25 Construct a BufferSequenceOutputStream.

Bus - Interface in com.oracle.common.net.exabus

A Bus represents a communication mechanism that allows the exchange of information between multiple peers, called EndPoints.

30

calculateSegmentSizes(int, int) - Static method in class
com.oracle.common.internal.io.SegmentedBufferManager

Creates an array with the sizes of each segment based on the cbBufferMin and the growth factor.

35 cancel() - Method in class

com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey

cancel() - Method in class

com.oracle.common.internal.net.WrapperSelector.WrapperSelectionKey

ChainedIterator<T> - Class in com.oracle.common.collections

Provide an Iterator which iterates over the contents of multiple Iterators.

5 ChainedIterator(Iterator<T>, Iterator<T>) - Constructor for class

com.oracle.common.collections.ChainedIterator

Construct an enumerator that will first enumerate the first Iterator and then will enumerate the second Iterator as if they were together a single Iterator.

ChainedIterator(Iterator<T>[]) - Constructor for class

10 com.oracle.common.collections.ChainedIterator

Construct an enumerator that will first enumerate the Iterators passed in the array as if they were together a single enumerator.

channel() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel.Socket

15 etSelectionKey

channel() - Method in class

com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey

channel() - Method in class

com.oracle.common.internal.net.WrapperSelector.WrapperSelectionKey

20 checkClientTrusted(X509Certificate[], String) - Method in class

com.oracle.common.internal.security.PeerX509TrustManager

Determine if the leaf certificate in the given certificate chain is contained in the trusted peer key store.

CheckedBufferManager - Class in com.oracle.common.internal.io

25 CheckedBufferManager is a BufferManager wrapper which adds on safety checks to detect improper re-use of ByteBuffers.

CheckedBufferManager(BufferManager) - Constructor for class

com.oracle.common.internal.io.CheckedBufferManager

Construct a CheckedBufferManager around the specified manager.

30 checkPeerTrusted(X509Certificate[], String) - Method in class

com.oracle.common.internal.security.PeerX509TrustManager

Determine if the leaf certificate in the given certificate chain is contained in the trusted peer key store.

checkServerTrusted(X509Certificate[], String) - Method in class

35 com.oracle.common.internal.security.PeerX509TrustManager

Determine if the leaf certificate in the given certificate chain is contained in the trusted peer

key store.

clear() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterCollection

clear() - Method in class

5 com.oracle.common.collections.ConverterCollections.ConverterEntrySet

clear() - Method in class com.oracle.common.collections.ConverterCollections.ConverterMap

clear() - Method in class com.oracle.common.collections.UnmodifiableSetCollection

close(InetAddress32) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider

10 Stop listening for connections on the specified address.

close() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocket

close() - Method in class com.oracle.common.internal.net.socketbus.AbstractSocketBus

Close the bus, preventing any further data exchanges.

15 close() - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

close(Throwables) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.HandshakeHandler

Close the HandshakeHandler's channel.

20 close() - Method in class com.oracle.common.internal.net.WrapperServerSocket

close() - Method in class com.oracle.common.internal.net.WrapperSocket

close() - Method in class com.oracle.common.io.BufferSequenceInputStream

close() - Method in class com.oracle.common.io.BufferSequenceOutputStream

close() - Method in interface com.oracle.common.io.InputStreaming

25 Close the InputStream and release any system resources associated with it.

close() - Method in interface com.oracle.common.net.exabus.Bus

Close the bus, preventing any further data exchanges.

close() - Method in class com.oracle.common.net.exabus.util.MessageBusTest.EchoBus

closeOutbound() - Method in class com.oracle.common.internal.net.ssl.SSLSocketChannel

30 Called to terminate to accept termination of the end of the connection.

Collector<V> - Interface in com.oracle.common.base

A Collector is mechanism for receiving items.

com.oracle.common.base - package com.oracle.common.base

com.oracle.common.collections - package com.oracle.common.collections

35 com.oracle.common.internal.io - package com.oracle.common.internal.io

com.oracle.common.internal.net - package com.oracle.common.internal.net

- com.oracle.common.internal.net.socketbus - package
 com.oracle.common.internal.net.socketbus
 com.oracle.common.internal.net.ssl - package com.oracle.common.internal.net.ssl
 com.oracle.common.internal.security - package com.oracle.common.internal.security
 5 com.oracle.common.io - package com.oracle.common.io
 com.oracle.common.net - package com.oracle.common.net
 com.oracle.common.net.exabus - package com.oracle.common.net.exabus
 com.oracle.common.net.exabus.spi - package com.oracle.common.net.exabus.spi
 com.oracle.common.net.exabus.util - package com.oracle.common.net.exabus.util
 10 com.oracle.common.util - package com.oracle.common.util
 comparator() - Method in class
 com.oracle.common.collections.ConverterCollections.ConverterSortedMap
 comparator() - Method in class
 com.oracle.common.collections.ConverterCollections.ConverterSortedSet
 15 compare(T, T) - Method in class
 com.oracle.common.collections.ConverterCollections.ConverterComparator
 compare(InetAddress, InetAddress) - Method in class
 com.oracle.common.net.InetAddressComparator
 compare(SocketAddress, SocketAddress) - Method in class
 20 com.oracle.common.net.InetSocketAddressComparator
 compareAndSwap(EndPoint, long, long, long, Holder<Long>, Object) - Method in interface
 com.oracle.common.net.exabus.MemoryBus
 Request an atomic compare and swap (CAS) operation on an eight byte word in the peer's
 memory.
 25 computeLength(ByteBuffer[], int, int) - Static method in class
 com.oracle.common.io.MultiBufferSequence
 Return the number of remaning bytes in the supplied ByteBuffer array.
 computePort(int, int) - Static method in class
 com.oracle.common.internal.net.MultiplexedSocketProvider
 30 Compute the 32 bit port from the specified base and sub port
 configure(ServerSocket, SocketOptions) - Static method in class
 com.oracle.common.net.Sockets
 Apply the specified options to a socket.
 configure(Socket, SocketOptions) - Static method in class com.oracle.common.net.Sockets
 35 Apply the specified options to a socket.
 configure(DatagramSocket, SocketOptions) - Static method in class

com.oracle.common.net.Sockets

Apply the specified options to a socket.

configure(MulticastSocket, SocketOptions) - Method in class

com.oracle.common.net.Sockets

5 Apply the specified options to a socket.

configureSocket(Socket) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus

Configure the specified Socket

configureSocket(ServerSocket) - Method in class

10 com.oracle.common.internal.net.socketbus.AbstractSocketBus

Configure the specified ServerSocket

connect(SocketAddress) - Method in class

com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedSocket

connect(SocketAddress, int) - Method in class

15 com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedSocket

connect(SocketAddress) - Method in class

com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedSocketChannel

connect(SocketAddress) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocket

20 connect(SocketAddress, int) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocket

connect(SocketAddress) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel

connect(EndPoint) - Method in class

25 com.oracle.common.internal.net.socketbus.AbstractSocketBus

Connect this bus to an EndPoint.

connect(SocketAddress, int) - Method in class

com.oracle.common.internal.net.ssl.SSLSocket

connect(SocketAddress) - Method in class com.oracle.common.internal.net.WrapperSocket

30 connect(SocketAddress, int) - Method in class

com.oracle.common.internal.net.WrapperSocket

connect(SocketAddress) - Method in class

com.oracle.common.internal.net.WrapperSocketChannel

connect(EndPoint) - Method in interface com.oracle.common.net.exabus.Bus

35 Connect this bus to an EndPoint.

connect(EndPoint) - Method in class

- com.oracle.common.net.exabus.util.MessageBusTest.EchoBus
contains(Object) - Method in class
- com.oracle.common.collections.ConverterCollections.ConverterCollection
contains(Object) - Method in class
- 5 com.oracle.common.collections.ConverterCollections.ConverterEntrySet
contains(Object) - Method in class
- com.oracle.common.collections.UnmodifiableSetCollection
containsAll(Collection<?>) - Method in class
- com.oracle.common.collections.ConverterCollections.ConverterCollection
10 containsAll(Collection<?>) - Method in class
- com.oracle.common.collections.ConverterCollections.ConverterEntrySet
containsAll(Collection<?>) - Method in class
- com.oracle.common.collections.UnmodifiableSetCollection
containsKey(Object) - Method in class
- 15 com.oracle.common.collections.ConverterCollections.ConverterMap
containsValue(Object) - Method in class
- com.oracle.common.collections.ConverterCollections.ConverterMap
continueProtocol() - Method in class com.oracle.common.internal.net.ssl.SSLSocketChannel
Continue the protocol by waking up the selector.
- 20 convert(F) - Method in interface com.oracle.common.base.Converter
Convert the passed object to another object.
- convert(long, Bandwidth.Rate, Bandwidth.Rate) - Static method in enum
com.oracle.common.io.Bandwidth.Rate
Convert a number of units of the specified Bandwidth.Rate to another Bandwidth.Rate.
- 25 convertArray(Object[], Converter<F, T>) - Static method in class
com.oracle.common.collections.ConverterCollections
Convert the contents of the passed array.
- convertArray(Object[], Converter<F, T>, Object[]) - Static method in class
com.oracle.common.collections.ConverterCollections
- 30 Convert the contents of the passed source array into an array with the component type of
the passed destination array, using the destination array itself if it is large enough, and
placing a null in the first unused element of the destination array if it is larger than the source
array.
- Converter<F,T> - Interface in com.oracle.common.base
- 35 Provide for "pluggable" object conversions.
- ConverterCollections - Class in com.oracle.common.collections

A collection of Collection implementation classes that use the Converter interface to convert the items stored in underlying collection objects.

ConverterCollections() - Constructor for class

com.oracle.common.collections.ConverterCollections

- 5 ConverterCollections.AbstractConverterEntry<FK,TK,FV,TV> - Class in
com.oracle.common.collections

An abstract Map Entry that lazily converts the key and value.

ConverterCollections.AbstractConverterEntry(Map.Entry<FK, FV>) - Constructor for class
com.oracle.common.collections.ConverterCollections.AbstractConverterEntry

- 10 Constructor.

ConverterCollections.ConverterCollection<F,T> - Class in com.oracle.common.collections

A Converter Collection views an underlying Collection through a Converter.

ConverterCollections.ConverterCollection(Collection<F>, Converter<F, T>, Converter<T, F>)
- Constructor for class

- 15 com.oracle.common.collections.ConverterCollections.ConverterCollection
Constructor.

ConverterCollections.ConverterComparator<F,T> - Class in com.oracle.common.collections

A Comparator that Converts the elements before comparing them.

ConverterCollections.ConverterComparator(Comparator<? super F>, Converter<T, F>) -

- 20 Constructor for class

com.oracle.common.collections.ConverterCollections.ConverterComparator
Constructor.

ConverterCollections.ConverterEntry<FK,TK,FV,TV> - Class in
com.oracle.common.collections

- 25 A Map Entry that lazily converts the key and value.

ConverterCollections.ConverterEntry(Map.Entry<FK, FV>, Converter<FK, TK>,

Converter<FV, TV>, Converter<TV, FV>) - Constructor for class

com.oracle.common.collections.ConverterCollections.ConverterEntry
Constructor.

- 30 ConverterCollections.ConverterEntrySet<FK,TK,FV,TV> - Class in
com.oracle.common.collections

A Converter Entry Set views an underlying Entry Set through a set of key and value
Converters.

ConverterCollections.ConverterEntrySet(Collection<Map.Entry<FK, FV>>, Converter<FK,

- 35 TK>, Converter<TK, FK>, Converter<FV, TV>, Converter<TV, FV>) - Constructor for class
com.oracle.common.collections.ConverterCollections.ConverterEntrySet

Constructor.

ConverterCollections.ConverterEntrySet.ConverterEntry - Class in
com.oracle.common.collections

A Map Entry that lazily converts the key and value.

- 5 ConverterCollections.ConverterEntrySet.ConverterEntry(Map.Entry<FK, FV>) - Constructor
for class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet.ConverterEntry
Constructor.

ConverterCollections.ConverterEntrySet.ConverterIterator - Class in

- 10 com.oracle.common.collections

A Map Entry Iterator that converts the key and value types.

ConverterCollections.ConverterEntrySet.ConverterIterator(Iterator<Map.Entry<FK, FV>>) -
Constructor for class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet.ConverterIterator

- 15 Constructor.

ConverterCollections.ConverterEnumerator<F,T> - Class in com.oracle.common.collections

Provide an implementation of an enumerator which converts each of the items which it
enumerates.

ConverterCollections.ConverterEnumerator(Enumeration<F>, Converter<F, T>) - Constructor

- 20 for class com.oracle.common.collections.ConverterCollections.ConverterEnumerator

Construct the Converter enumerator based on an Enumeration.

ConverterCollections.ConverterEnumerator(Iterator<F>, Converter<F, T>) - Constructor for
class com.oracle.common.collections.ConverterCollections.ConverterEnumerator

Construct the Converter enumerator based on an Iterator.

- 25 ConverterCollections.ConverterEnumerator(Object[], Converter<F, T>) - Constructor for class
com.oracle.common.collections.ConverterCollections.ConverterEnumerator

Construct the Converter enumerator based on an array of objects.

ConverterCollections.ConverterList<F,T> - Class in com.oracle.common.collections

A Converter List views an underlying List through a Converter.

- 30 ConverterCollections.ConverterList(List<F>, Converter<F, T>, Converter<T, F>) -
Constructor for class com.oracle.common.collections.ConverterCollections.ConverterList
Constructor.

ConverterCollections.ConverterListIterator<F,T> - Class in com.oracle.common.collections

A Converter ListIterator views an underlying ListIterator through a Converter.

- 35 ConverterCollections.ConverterListIterator(ListIterator<F>, Converter<F, T>, Converter<T,
F>) - Constructor for class

com.oracle.common.collections.ConverterCollections.ConverterListIterator

Constructor.

ConverterCollections.ConverterMap<FK,TK,FV,TV> - Class in

com.oracle.common.collections

- 5 A Converter Map views an underlying Map through a set of key and value Converters.
 ConverterCollections.ConverterMap(Map<FK, FV>, Converter<FK, TK>, Converter<TK, FK>,
 Converter<FV, TV>, Converter<TV, FV>) - Constructor for class
 com.oracle.common.collections.ConverterCollections.ConverterMap
 Constructor.

- 10 ConverterCollections.ConverterSet<F,T> - Class in com.oracle.common.collections

A Converter Set views an underlying Set through a Converter.

ConverterCollections.ConverterSet(Set<F>, Converter<F, T>, Converter<T, F>) - Constructor
 for class com.oracle.common.collections.ConverterCollections.ConverterSet
 Constructor.

- 15 ConverterCollections.ConverterSortedMap<FK,TK,FV,TV> - Class in
 com.oracle.common.collections

A Converter SortedMap views an underlying SortedMap through a set of key and value
 Converters.

- ConverterCollections.ConverterSortedMap(SortedMap<FK, FV>, Converter<FK, TK>,
 20 Converter<TK, FK>, Converter<FV, TV>, Converter<TV, FV>) - Constructor for class
 com.oracle.common.collections.ConverterCollections.ConverterSortedMap
 Constructor.

ConverterCollections.ConverterSortedSet<F,T> - Class in com.oracle.common.collections

A Converter SortedSet views an underlying SortedSet through a Converter.

- 25 ConverterCollections.ConverterSortedSet(SortedSet<F>, Converter<F, T>, Converter<T, F>)
 - Constructor for class
 com.oracle.common.collections.ConverterCollections.ConverterSortedSet
 Constructor.

copyDependencies(MultiplexedSocketProvider.Dependencies) - Method in class

- 30 com.oracle.common.internal.net.MultiplexedSocketProvider

Produce a copy of the specified Dependencies object.

copyDependencies(SocketBusDriver.Dependencies) - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver

Produce a shallow copy of the supplied dependencies.

- 35 copyDependencies(SimpleDepot.Dependencies) - Method in class
 com.oracle.common.net.exabus.util.SimpleDepot

Produce a shallow copy of the supplied dependencies.

copyDependencies(SSLSocketProvider.Dependencies) - Method in class
com.oracle.common.net.SSLSocketProvider

Produce a shallow copy of the supplied dependencies.

5 create() - Method in interface com.oracle.common.base.Factory

Create a new instance.

create() - Method in class

com.oracle.common.internal.net.HashSelectionService.ServiceFactory

Create a new instance.

10 create() - Method in class

com.oracle.common.internal.net.ResumableSelectionService.ServiceFactory

Create a new instance.

createBus(EndPoint) - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver

15 Create a new Bus bound to the specified local EndPoint.

createBus(EndPoint) - Method in interface com.oracle.common.net.exabus.spi.Driver

Create a new Bus bound to the specified local EndPoint.

createBus(EndPoint) - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.EchoBus.EchoDriver

20 createMemoryBus(EndPoint) - Method in interface com.oracle.common.net.exabus.Depot

Create a new MemoryBus bound to the specified local EndPoint.

createMemoryBus(EndPoint) - Method in class

com.oracle.common.net.exabus.util.SimpleDepot

Create a new MemoryBus bound to the specified local EndPoint.

25 createMessageBus(EndPoint) - Method in interface com.oracle.common.net.exabus.Depot

Create a new MessageBus bound to the specified local EndPoint.

createMessageBus(EndPoint) - Method in class

com.oracle.common.net.exabus.util.SimpleDepot

Create a new MessageBus bound to the specified local EndPoint.

30 createServerSocket() - Method in class

com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedServerSocketChannel

createServerSocket() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedServerSocketChannel

35 I

createUnresolved(String, int) - Static method in class

com.oracle.common.net.InetSocketAddress32

Creates an unresolved socket address from a hostname and a port number.

5 DaemonThreadFactory - Class in com.oracle.common.util

 DaemonThreadFactory is a ThreadFactory which produces daemon threads.

 DaemonThreadFactory() - Constructor for class

com.oracle.common.util.DaemonThreadFactory

 Construct a new DaemonThreadFactory.

10 DaemonThreadFactory(String) - Constructor for class

com.oracle.common.util.DaemonThreadFactory

 Construct a new DaemonThreadFactory.

 decrypt(ByteBuffer[], int, int) - Method in class

com.oracle.common.internal.net.ssl.SSLSocketChannel

15 Decrypt from the incoming network buffer into the supplied buffers.

 DEFAULT_BUF_MIN_SIZE - Static variable in class

com.oracle.common.internal.io.SegmentedBufferManager

 The default size of the smallest ByteBuffer.

 DEFAULT_BUFFER_MANAGER - Static variable in class

20 com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

 Default BufferManager.

 DEFAULT_OPTIONS - Static variable in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

 Default SocketOptions.

25 DEFAULT_SEGMENT_COUNT - Static variable in class

com.oracle.common.internal.io.SegmentedBufferManager

 The default number of segments.

 DEFAULT_STATS_FREQUENCY - Static variable in class

com.oracle.common.internal.io.SegmentedBufferManager

30 The default release frequency at which to records statistics.

 delayProtocol(int, int, int) - Method in class

com.oracle.common.internal.net.ssl.SSLSocketChannel

 Delay the protocol waiting to do the specified operation.

 delegate() - Method in class

35 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel

 Return the delegate channel

DemultiplexedSocketProvider - Class in com.oracle.common.internal.net

DemultiplexedSocketProvider is a bridge Socket provider that allows to use MultiplexedSocketProvider without converting the socket addresses into InetSocketAddress32.

- 5 DemultiplexedSocketProvider(MultiplexedSocketProvider, int) - Constructor for class com.oracle.common.internal.net.DemultiplexedSocketProvider

Construct a DemultiplexedSocketProvider

DemultiplexedSocketProvider.DemultiplexedServerSocketChannel - Class in com.oracle.common.internal.net

- 10 DemultiplexedServerSocketChannel extends MultiplexedServerSocketChannel so that it can convert all the SocketAddresses into InetSocketAddress32

DemultiplexedSocketProvider.DemultiplexedServerSocketChannel(MultiplexedSocketProvider) - Constructor for class

com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedServerSocketChannel

- 15 Create a DemultiplexedServerSocketChannel

DemultiplexedSocketProvider.DemultiplexedSocket - Class in com.oracle.common.internal.net

- 20 DemultiplexedSocketChannel extends MultiplexedSocketChannel so that it can convert all the SocketAddresses into InetSocketAddress32

DemultiplexedSocketProvider.DemultiplexedSocket(Socket, SocketChannel) - Constructor for class

com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedSocket

Create a DemultiplexedSocket.

- 25 DemultiplexedSocketProvider.DemultiplexedSocketChannel - Class in com.oracle.common.internal.net

DemultiplexedSocketChannel extends MultiplexedSocketChannel so that it can convert all the SocketAddresses into InetSocketAddress32

DemultiplexedSocketProvider.DemultiplexedSocketChannel(MultiplexedSocketProvider.MultiplexedSocketChannel) - Constructor for class

- 30 com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedSocketChannel

Create a DemultiplexedSocketChannel

DemultiplexedSocketProvider.DemultiplexedSocketChannel(MultiplexedSocketProvider) - Constructor for class

- 35 com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedSocketChannel

Create a DemultiplexedSocketChannel

Depot - Interface in com.oracle.common.net.exabus

A Depot serves as a factory for creating EndPoints and Buses.

deregister(int) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.Listener

5 Deregister an acceptor.

detach() - Method in class com.oracle.common.internal.net.socketbus.SharedBuffer

Decrement the reference count, releasing the buffer if the count reaches zero.

disconnect(EndPoint) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus

10 Disconnect an EndPoint from this bus.

disconnect(EndPoint) - Method in interface com.oracle.common.net.exabus.Bus

Disconnect an EndPoint from this bus.

disconnect(EndPoint) - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.EchoBus

15 Disposable - Interface in com.oracle.common.base

The Disposable interface is used for life-cycle management of resources.

dispose() - Method in interface com.oracle.common.base.Disposable

Invoked when all resources owned by the implementor can safely be released.

dispose() - Method in class com.oracle.common.internal.io.CheckedBufferManager

20 Invoked when all resources owned by the implementor can safely be released.

dispose() - Method in class com.oracle.common.internal.io.SegmentedBufferManager

dispose() - Method in class com.oracle.common.internal.io WrapperBufferManager

dispose() - Method in class

com.oracle.common.internal.net.socketbus.MultiBufferMessageEvent

25 Invoked when all resources owned by the implementor can safely be released.

dispose() - Method in class com.oracle.common.internal.net.socketbus.SharedBuffer

Decrement the SharedBuffer's reference count, once it reaches zero the shared buffer will be released to the manager.

dispose(ByteBuffer) - Method in interface

30 com.oracle.common.internal.net.socketbus.SharedBuffer.Disposer

Dispose byte buffer

dispose() - Method in class

com.oracle.common.internal.net.socketbus.SharedBuffer.Segment

Decrement the reference count of the SharedBuffer associated with this Segment.

35 dispose() - Method in class

com.oracle.common.internal.net.socketbus.SingleBufferMessageEvent

Invoked when all resources owned by the implementor can safely be released.

dispose() - Method in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadBatch

5 Invoked when all resources owned by the implementor can safely be released.

dispose(ByteBuffer) - Method in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadBatch.SharedBufferDisposer

dispose() - Method in class

10 com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadBatch.TaskEvent

dispose() - Method in class com.oracle.common.io.MultiBufferSequence

Invoked when all resources owned by the implementor can safely be released.

dispose() - Method in class com.oracle.common.io.SingleBufferSequence

15 Invoked when all resources owned by the implementor can safely be released.

dispose() - Method in interface com.oracle.common.net.exabus.Event

Dispose of the event, releasing any resources associated with it.

dispose() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.StampedEvent

20 dispose() - Method in class com.oracle.common.net.exabus.util.SimpleEvent

Dispose of the event, releasing any resources associated with it.

drainClearBuffer(ByteBuffer[], int, int) - Method in class

com.oracle.common.internal.net.ssl.SSLSocketChannel

Drain as much of the clear-text buffer into the supplied buffers The caller must hold the

25 read monitor.

Driver - Interface in com.oracle.common.net.exabus.spi

A Driver represents a distinct bus implementation.

Duration - Class in com.oracle.common.util

A Duration represents an amount of time, with nanosecond accuracy.

30 Duration(Duration) - Constructor for class com.oracle.common.util.Duration

Construct a Duration given another Duration.

Duration(long) - Constructor for class com.oracle.common.util.Duration

Construct a Duration give a specified number of nano seconds.

Duration(String) - Constructor for class com.oracle.common.util.Duration

35 Construct a Duration by parsing the specified String.

Duration(double, Duration.Magnitude) - Constructor for class

com.oracle.common.util.Duration

Construct a Duration given a specified amount of a Duration.Magnitude.

Duration(int, Duration.Magnitude) - Constructor for class com.oracle.common.util.Duration

Construct a Duration given a specified amount of a Duration.Magnitude.

5 Duration(String, Duration.Magnitude) - Constructor for class

com.oracle.common.util.Duration

Construct a Duration by parsing the specified String.

Duration.Magnitude - Enum in com.oracle.common.util

The Duration.Magnitude of the Duration.

10

emitEvent(Event) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus

Emit the specified Event to the Event Collector.

15 encrypt(ByteBuffer[], int, int) - Method in class

com.oracle.common.internal.net.ssl.SSLSocketChannel

Encrypt the supplied contents, storing them in the outgoing buffer.

EndPoint - Interface in com.oracle.common.net.exabus

EndPoint provides an opaque representation of an address for a Bus.

20 endProtocol() - Method in class com.oracle.common.internal.net.ssl.SSLSocketChannel

Update the SelectionKeys once the handshake protocol has completed.

engineGetTrustManagers() - Method in class

com.oracle.common.internal.security.PeerX509TrustManagerFactory

Return one trust manager for each type of trust material.

25 engineInit(KeyStore) - Method in class

com.oracle.common.internal.security.PeerX509TrustManagerFactory

Initialize this factory with a source of certificate authorities and related trust material.

engineInit(ManagerFactoryParameters) - Method in class

com.oracle.common.internal.security.PeerX509TrustManagerFactory

30 Initialize this factory with a source of provider-specific key material.

ensureAdditionalBufferCapacity(int) - Method in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection.WriteBatch

Ensure the buffer array has enough capacity to add the specified number of buffers.

35 ensureAdditionalRecycleCapacity(int) - Method in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection.WriteBatch

ch

Ensure the recycle buffer array has enough capacity to add the specified number of buffers.

ensureArgument(Object, String) - Static method in class

5 com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Ensure that the specified object is non-null

ensureArgument(Object, String) - Static method in class

com.oracle.common.net.exabus.util.SimpleDepot.DefaultDependencies

Ensure that the specified object is non-null.

10 ensureArgument(Object, String) - Static method in class

com.oracle.common.net.SSLSocketProvider.DefaultDependencies

Ensure that the specified object is non-null

ensureBufferList() - Method in class com.oracle.common.io.BufferSequenceOutputStream

Return the buffer list, creating it if necessary.

15 ensureCapacity(long) - Method in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadBatch

Ensure that m_aBuffer has sufficient writable capacity.

ensureCompatibility(ByteBuffer) - Method in class

20 com.oracle.common.internal.io.AbstractBufferManager

Ensure that the specified buffer is compatible with this manager.

ensureConnection(EndPoint) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus

Return the bus connection for the specified EndPoint.

25 ensureIOException(Exception) - Static method in class

com.oracle.common.net.SdpSocketProvider

Return an IOException for the specified Exception

ensureOpen() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelector

30 Ensure that the Selector is open.

ensureRegistration() - Static method in class

com.oracle.common.internal.security.SecurityProvider

Ensure that an instance of this provider has been registered with the system.

ensureSessionValidity(SSLSession, Socket) - Method in class

35 com.oracle.common.net.SSLSocketProvider

Ensure that supplied session is acceptable.

ensureThread() - Method in class

com.oracle.common.internal.net.ResumableSelectionService

Ensure that there is a service thread running.

ensureValid() - Method in class

5 com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

Ensure that the connection is usable.

entrySet() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterMap

EPHEMERAL_SUB_PORT_START - Static variable in class

10 com.oracle.common.internal.net.MultiplexedSocketProvider

The start of the ephemeral sub-port range.

equals(V, V) - Method in interface com.oracle.common.base.Hasher

Compare two objects for equality.

equals(V, V) - Method in class com.oracle.common.base.IdentityHasher

15 Compare two objects for equality.

equals(V, V) - Method in class com.oracle.common.base.NaturalHasher

Compare two objects for equality.

equals(Object) - Method in class

com.oracle.common.collections.ConverterCollections.AbstractConverterEntry

20 equals(Object) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterCollection

Compares the specified object with this collection for equality.

equals(Object) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet

25 equals(Object) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterList

Compares the specified object with this collection for equality.

equals(Object) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterMap

30 equals(Object) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterSet

Compares the specified object with this collection for equality.

equals(Object) - Method in class com.oracle.common.collections.UnmodifiableSetCollection

equals(Object) - Method in class

35 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelectorProvider

equals(Object) - Method in class com.oracle.common.internal.net.ssl.SSLSelectorProvider

`equals(Object)` - Method in class `com.oracle.common.io.Bandwidth`

`equals(BufferSequence, BufferSequence)` - Static method in class `com.oracle.common.io Buffers`

Compare two `BufferSequences` for byte sequence equality.

5 `equals(Object)` - Method in class `com.oracle.common.io.MemorySize`

`equals(Object)` - Method in interface `com.oracle.common.net.exabus.EndPoint`

Return true iff the specified object in an `EndPoint` representing the same bus as this `EndPoint`.

`equals(Object)` - Method in class `com.oracle.common.net.exabus.util.UrlEndPoint`

10 Return true iff the specified object in an `EndPoint` representing the same bus as this `EndPoint`.

`equals(InetAddress, InetAddress)` - Method in class `com.oracle.common.net.InetAddressHasher`

Compare two objects for equality.

15 `equals(Object)` - Method in class `com.oracle.common.net.InetSocketAddress32`

Compares this object against the specified object.

`equals(SocketAddress, SocketAddress)` - Method in class `com.oracle.common.net.InetSocketAddressHasher`

Compare two objects for equality.

20 `equals(Object)` - Method in class `com.oracle.common.util.Duration`

`evaluate(T)` - Method in interface `com.oracle.common.base.Predicate`

Return true iff the specified object satisfies the predicate.

`Event` - Interface in `com.oracle.common.net.exabus`

An `Event` indicates that a special condition has occurred on a `Bus`.

25 `Event.Type` - Enum in `com.oracle.common.net.exabus`

Enumeration of event types.

`FACTOR` - Variable in enum `com.oracle.common.util.Duration.Magnitude`

30 The number of nanoseconds in a single unit of this magnitude.

`Factory<T>` - Interface in `com.oracle.common.base`

The `Factory` interface provides a means of producing objects of a given type.

`fillClearBuffer()` - Method in class `com.oracle.common.internal.net.ssl.SSLSocketChannel`

Fill the clear-text buffer by decrypting any buffered encrypted data.

35 `finishConnect()` - Method in class

`com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel`

- finishConnect() - Method in class com.oracle.common.internal.net.WrapperSocketChannel
- first() - Method in class
com.oracle.common.collections.ConverterCollections.ConverterSortedSet
- firstKey() - Method in class
- 5 com.oracle.common.collections.ConverterCollections.ConverterSortedMap
- flush() - Method in interface com.oracle.common.base.Collector
Request processing of any added values.
- flush() - Method in class
com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection
- 10 Flush the connection.
- flush() - Method in class com.oracle.common.internal.net.socketbus.AbstractSocketBus
Ensure that any buffered asynchronous operations are dispatched.
- flush() - Method in class
com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection
- 15 Send any scheduled BufferSequences.
- flush(boolean) - Method in class
com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection
- Send any scheduled BufferSequences.
- flush() - Method in class com.oracle.common.io.BufferSequenceOutputStream
- 20 flush() - Method in interface com.oracle.common.net.exabus.Bus
Ensure that any buffered asynchronous operations are dispatched.
- flush() - Method in class
com.oracle.common.net.exabus.util.MessageBusTest.DemultiplexingCollector
- Request processing of any added values.
- 25 flush() - Method in class com.oracle.common.net.exabus.util.MessageBusTest.EchoBus
- flushEvents() - Method in class
com.oracle.common.internal.net.socketbus.AbstractSocketBus
- Flush the event collector.
- fromBits(long) - Method in enum com.oracle.common.io.Bandwidth.Rate
- 30 Convert the specified number of bits to units of this Bandwidth.Rate.
- fromSuffix(String) - Static method in enum com.oracle.common.io.Bandwidth.Magnitude
Determine the Bandwidth.Magnitude given the specified suffix.
- fromSuffix(String) - Static method in enum com.oracle.common.io.Bandwidth.Rate
Determine the Bandwidth.Rate given the specified suffix.
- 35 fromSuffix(String) - Static method in enum com.oracle.common.io.MemorySize.Magnitude
Determine the MemorySize.Magnitude given the specified suffix.

fromSuffix(String) - Static method in enum com.oracle.common.util.Duration.Magnitude
Determine the Duration.Magnitude given the specified suffix.

- 5 get() - Method in interface com.oracle.common.base.Holder
 Return the held object.
- get() - Method in class com.oracle.common.base.SimpleHolder
 Return the held object.
- get() - Method in class com.oracle.common.base.VolatileHolder
10 Return the held object.
- get(int) - Method in class com.oracle.common.collections.ConverterCollections.ConverterList
- get(Object) - Method in class
com.oracle.common.collections.ConverterCollections.ConverterMap
- get() - Method in class com.oracle.common.internal.net.socketbus.SharedBuffer
15 Return the held object.
- get() - Method in class com.oracle.common.internal.net.socketbus.SharedBuffer.Segment
 Return the held object.
- get(int) - Method in class com.oracle.common.net.SocketSettings
 Return the specified option.
- 20 get() - Static method in class com.oracle.common.util.ThreadLocalRandom
 Get the Random instance object associated with this thread.
- getAcceptedIssuers() - Method in class
com.oracle.common.internal.security.PeerX509TrustManager
- Return an array of certificate authority certificates which are trusted for authenticating
25 peers.
- getAddress() - Method in class com.oracle.common.net.exabus.util.UrlEndPoint
 Return the SocketAddress represented by this EndPoint.
- getAddress() - Method in class com.oracle.common.net.InetSocketAddress32
 Gets the InetAddress.
- 30 getAddressString(Socket) - Method in class
com.oracle.common.internal.net.MultiplexedSocketProvider
- Return the string form of of the socket's address, suitable for resolving via
SocketProvider.resolveAddress(java.lang.String), on a remote host.
- getAddressString(ServerSocket) - Method in class
35 com.oracle.common.internal.net.MultiplexedSocketProvider
- Return the string form of of the server's address, suitable for resolving via

SocketProvider.resolveAddress(java.lang.String), on a remote host.

getAddressString(Socket) - Method in class com.oracle.common.net.InetSocketProvider

Return the string form of of the socket's address, suitable for resolving via

SocketProvider.resolveAddress(java.lang.String), on a remote host.

5 getAddressString(ServerSocket) - Method in class

com.oracle.common.net.InetSocketProvider

Return the string form of of the server's address, suitable for resolving via

SocketProvider.resolveAddress(java.lang.String), on a remote host.

getAddressString(Socket) - Method in interface com.oracle.common.net.SocketProvider

10 Return the string form of of the socket's address, suitable for resolving via

SocketProvider.resolveAddress(java.lang.String), on a remote host.

getAddressString(ServerSocket) - Method in interface

com.oracle.common.net.SocketProvider

Return the string form of of the server's address, suitable for resolving via

15 SocketProvider.resolveAddress(java.lang.String), on a remote host.

getAddressString(Socket) - Method in class com.oracle.common.net.SSLSocketProvider

Return the string form of of the socket's address, suitable for resolving via

SocketProvider.resolveAddress(java.lang.String), on a remote host.

getAddressString(ServerSocket) - Method in class

20 com.oracle.common.net.SSLSocketProvider

Return the string form of of the server's address, suitable for resolving via

SocketProvider.resolveAddress(java.lang.String), on a remote host.

getAndAdd(EndPoint, long, long, Holder<Long>, Object) - Method in interface

com.oracle.common.net.exabus.MemoryBus

25 Request an atomic increment on an eight byte word on the peer.

getAssociatedKey() - Method in interface com.oracle.common.base.Associated

Determine the host key (or base) object to which this object is associated.

getAssociatedKey(Object) - Method in interface com.oracle.common.base.Associator

Determine the host key (or base) object to which the specified object is associated.

30 getAssociatedKey(Object) - Method in class com.oracle.common.base.NaturalAssociator

Determine the host key (or base) object to which the specified object is associated.

getAutoFlushThreshold() - Method in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

Return the threshold at which a send/signal operation should perform an auto-flush of the

35 unflushed write batch.

getAutoFlushThreshold() - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Threshold at which a send/signal operation should perform an auto-flush of the unflushed write batch.

getAutoFlushThreshold() - Method in interface

5 com.oracle.common.internal.net.socketbus.SocketBusDriver.Dependencies

Threshold at which a send/signal operation should perform an auto-flush of the unflushed write batch.

getBacklog() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.DefaultDependencies

10 getBacklog() - Method in interface

com.oracle.common.internal.net.MultiplexedSocketProvider.Dependencies

Return the backlog setting for the underlying SocketProvider.

getBacklogExcessiveThreshold() - Method in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

15 Return the threshold at which to declare backlog

getBasePort(int) - Static method in class

com.oracle.common.internal.net.MultiplexedSocketProvider

Return the base (transport) port for a given 32b port.

getBuffer(int) - Method in interface com.oracle.common.io.BufferSequence

20 Return the ByteBuffer for a given index.

getBuffer() - Method in class com.oracle.common.io.BufferSequenceOutputStream

Return the current ByteBuffer with some remaining capacity.

getBuffer(int) - Method in class com.oracle.common.io.MultiBufferSequence

Return the ByteBuffer for a given index.

25 getBuffer(int) - Method in class com.oracle.common.io.SingleBufferSequence

Return the ByteBuffer for a given index.

getBufferCount() - Method in interface com.oracle.common.io.BufferSequence

Return the number of ByteBuffers contained in the sequence.

getBufferCount() - Method in class com.oracle.common.io.MultiBufferSequence

30 Return the number of ByteBuffers contained in the sequence.

getBufferCount() - Method in class com.oracle.common.io.SingleBufferSequence

Return the number of ByteBuffers contained in the sequence.

getBufferManager() - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

35 Return the BufferManager to use in creating temporary buffers.

getBufferManager() - Method in interface

com.oracle.common.internal.net.socketbus.SocketBusDriver.Dependencies

Return the BufferManager to use in creating temporary buffers.

getBuffers() - Method in interface com.oracle.common.io.BufferSequence

Return an array of ByteBuffers representing the sequence.

5 getBuffers(int, int, ByteBuffer[], int) - Method in interface

com.oracle.common.io.BufferSequence

Copy ByteBuffer duplicates into the supplied array.

getBuffers() - Method in class com.oracle.common.io.MultiBufferSequence

Return an array of ByteBuffers representing the sequence.

10 getBuffers(int, int, ByteBuffer[], int) - Method in class

com.oracle.common.io.MultiBufferSequence

Copy ByteBuffer duplicates into the supplied array.

getBuffers() - Method in class com.oracle.common.io.SingleBufferSequence

Return an array of ByteBuffers representing the sequence.

15 getBuffers(int, int, ByteBuffer[], int) - Method in class

com.oracle.common.io.SingleBufferSequence

Copy ByteBuffer duplicates into the supplied array.

getBufferTemp() - Method in class com.oracle.common.io.BufferSequenceInputStream

Return the stream's reusable buffer.

20 getBufferTemp() - Method in class com.oracle.common.io.BufferSequenceOutputStream

Return the stream's reusable buffer.

getBus() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

Return the MessageBus used by this processor.

25 getByteBuffer() - Method in class com.oracle.common.io.BufferSequenceInputStream

Obtain the ByteBuffer that this InputStream is based on.

getByteCount() - Method in class com.oracle.common.io.MemorySize

Obtain the number of bytes represented by the MemorySize.

getByteCount() - Method in enum com.oracle.common.io.MemorySize.Magnitude

30 Determine the number of bytes in a single unit of this MemorySize.Magnitude For example, a kilobyte has 1024 bytes.

getBytesIn() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

Return the number of bytes received.

35 getBytesOut() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

Return the number of bytes sent.

getBytesOut() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.Transmitter

Return the number of bytes sent.

5 getCanonicalName() - Method in interface com.oracle.common.net.exabus.EndPoint

Return the string representation of the EndPoint.

getCanonicalName() - Method in class com.oracle.common.net.exabus.util.UrlEndPoint

Return the string representation of the EndPoint.

getCapacity(EndPoint) - Method in interface com.oracle.common.net.exabus.MemoryBus

10 Return the capacity of a peer's hosted memory in bytes.

getChannel() - Method in class

com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedServerSocketChannel

getChannel() - Method in class

15 com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedSocket

getChannel() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedServerSocketChannel

getChannel() - Method in class

20 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocket

getChannel() - Method in class com.oracle.common.internal.net.WrapperServerSocket

getChannel() - Method in class com.oracle.common.internal.net.WrapperSocket

getChannel() - Method in class com.oracle.common.net.SafeSelectionHandler

Return the associated channel.

25 getCollection() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterCollection

Return the underlying Collection.

getCollection(Collection<F>, Converter<F, T>, Converter<T, F>) - Static method in class

com.oracle.common.collections.ConverterCollections

30 Returns an instance of Collection that uses a Converter to view an underlying Collection.

getCommonName(Principal) - Method in class

com.oracle.common.internal.security.PeerX509TrustManager

Return the common name of the given principal

getConcurrentWriters() - Method in class

35 com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

Return the number of concurrently executing writers.

getConcurrentWriters() - Method in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection.WriteBatch

Return the number of concurrently executing writers.

5 getConcurrentWriters() - Method in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection

getConnectionCount() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

Return the number of connections.

10 getContent() - Method in class

com.oracle.common.internal.net.socketbus.MultiBufferMessageEvent

Obtain the content associated with this event.

getContent() - Method in class

com.oracle.common.internal.net.socketbus.SingleBufferMessageEvent

15 Obtain the content associated with this event.

getContent() - Method in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadBatch.TaskEvent

getContent() - Method in interface com.oracle.common.net.exabus.Event

20 Obtain the content associated with this event.

getContent() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.StampedEvent

getContent() - Method in class com.oracle.common.net.exabus.util.SimpleEvent

Obtain the content associated with this event.

25 getConverterDown() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterCollection

Return the Converter used to pass values down to the underlying Collection.

getConverterDown() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterListIterator

30 Return the Converter used to pass values down to the underlying ListIterator.

getConverterKeyDown() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet

Return the Converter used to pass keys down to the underlying Entry Set.

getConverterKeyDown() - Method in class

35 com.oracle.common.collections.ConverterCollections.ConverterMap

Return the Converter used to pass keys down to the underlying Map.

getConverterKeyUp() - Method in class

com.oracle.common.collections.ConverterCollections.AbstractConverterEntry

Return the Converter to view the underlying Entry's key through.

getConverterKeyUp() - Method in class

5 com.oracle.common.collections.ConverterCollections.ConverterEntry

Return the Converter to view the underlying Entry's key through.

getConverterKeyUp() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet.ConverterEntry

Return the Converter to view the underlying Entry's key through.

10 getConverterKeyUp() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet

Return the Converter used to view the underlying Entry Set's keys through.

getConverterKeyUp() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterMap

15 Return the Converter used to view the underlying Map's keys through.

getConverterUp() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterCollection

Return the Converter used to view the underlying Collection's values through.

getConverterUp() - Method in class

20 com.oracle.common.collections.ConverterCollections.ConverterListIterator

Return the Converter used to view the underlying ListIterator's values through.

getConverterValueDown() - Method in class

com.oracle.common.collections.ConverterCollections.AbstractConverterEntry

Return the Converter used to change value in the underlying Entry.

25 getConverterValueDown() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEntry

Return the Converter used to change value in the underlying Entry.

getConverterValueDown() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet.ConverterEntry

30 Return the Converter used to change value in the underlying Entry.

getConverterValueDown() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet

Return the Converter used to pass values down to the underlying Entry Set.

getConverterValueDown() - Method in class

35 com.oracle.common.collections.ConverterCollections.ConverterMap

Return the Converter used to pass values down to the underlying Map.

getConverterValueUp() - Method in class

com.oracle.common.collections.ConverterCollections.AbstractConverterEntry

Return the Converter to view the underlying Entry's value through.

getConverterValueUp() - Method in class

5 com.oracle.common.collections.ConverterCollections.ConverterEntry

Return the Converter to view the underlying Entry's value through.

getConverterValueUp() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet.ConverterEntry

Return the Converter to view the underlying Entry's value through.

10 getConverterValueUp() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet

Return the Converter used to view the underlying Entry Set's values through.

getConverterValueUp() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterMap

15 Return the Converter used to view the underlying Map's values through.

getDataReadyOps() - Method in class

com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey

Return the SelectionKey ops which apply to the SSLSelectableChannel but not necessarily to the delegate channel.

20 getDefaultMemoryBusEndPoint() - Method in class

com.oracle.common.net.exabus.util.SimpleDepot.DefaultDependencies

Return the default MessageBus EndPoint name.

getDefaultMemoryBusEndPoint() - Method in interface

com.oracle.common.net.exabus.util.SimpleDepot.Dependencies

25 Return the default MessageBus EndPoint name.

getDefaultMemoryBusEndPoint() - Method in class

com.oracle.common.net.exabus.util.SimpleDepot

Return the default local MemoryBus EndPoint.

getDefaultMessageBusEndPoint() - Method in class

30 com.oracle.common.net.exabus.util.SimpleDepot.DefaultDependencies

Return the default MessageBus EndPoint name.

getDefaultMessageBusEndPoint() - Method in interface

com.oracle.common.net.exabus.util.SimpleDepot.Dependencies

Return the default MessageBus EndPoint name.

35 getDefaultMessageBusEndPoint() - Method in class

com.oracle.common.net.exabus.util.SimpleDepot

Return the default local MessageBus EndPoint.

getDefaultService() - Static method in class com.oracle.common.net.SelectionServices

Return A singleton instance of a SelectionService which is suitable for managing a large number of SelectableChannels efficiently.

5 getDelegate() - Method in class

com.oracle.common.internal.net.DemultiplexedSocketProvider

Return the delegate SocketProvider.

getDelegate() - Method in class com.oracle.common.internal.net.MultiplexedSocketProvider

Return the SocketProvider which this provider delegates to, or null if this is a root provider.

10 getDelegate() - Method in class com.oracle.common.internal.net.WrapperSelector

Return the Selector to which this selector delegates.

getDelegate() - Method in class com.oracle.common.net.SdpSocketProvider

getDelegate() - Method in interface com.oracle.common.net.SocketProvider

Return the SocketProvider which this provider delegates to, or null if this is a root provider.

15 getDelegate() - Method in class com.oracle.common.net.SSLSocketProvider

Return the SocketProvider which this provider delegates to, or null if this is a root provider.

getDelegate() - Method in class com.oracle.common.net.TcpSocketProvider

getDelegateProvider() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.DefaultDependencies

20 getDelegateProvider() - Method in interface

com.oracle.common.internal.net.MultiplexedSocketProvider.Dependencies

Return the underlying SocketProvider to use.

getDelegateSocketProvider() - Method in class

com.oracle.common.net.SSLSocketProvider.DefaultDependencies

25 Return the SocketProvider to use in producing the underling sockets which will be wrapped with SSL.

getDelegateSocketProvider() - Method in interface

com.oracle.common.net.SSLSocketProvider.Dependencies

Return the SocketProvider to use in producing the underling sockets which will be

30 wrapped with SSL.

getDependencies() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider

Return the provider's dependencies.

getDependencies() - Method in class

35 com.oracle.common.internal.net.socketbus.SocketBusDriver

Return the driver's Dependencies.

getDependencies() - Method in class com.oracle.common.net.exabus.util.SimpleDepot

Return the Depot's dependencies.

getDependencies() - Method in class com.oracle.common.net.SSLSocketProvider

Return the SocketProvider's dependencies.

5 getDepot() - Method in class com.oracle.common.internal.net.socketbus.SocketBusDriver

Return the depot associated with this driver.

getDepot() - Method in interface com.oracle.common.net.exabus.spi.Driver

Return the depot associated with this driver.

getDepot() - Method in class

10 com.oracle.common.net.exabus.util.MessageBusTest.EchoBus.EchoDriver

getDescription() - Method in enum com.oracle.common.io.Bandwidth.Magnitude

Obtain the name of the Bandwidth.Magnitude.

getDescription() - Method in enum com.oracle.common.io.Bandwidth.Rate

Determine the name of the Bandwidth.Rate.

15 getDescription() - Method in enum com.oracle.common.io.MemorySize.Magnitude

Obtain the name of the MemorySize.Magnitude For example, a kilobyte has the description "kilobyte".

getDirectManager() - Static method in class com.oracle.common.io.BufferManagers

Return the direct ByteBuffer based BufferManager.

20 getDirectWriteThreadThreshold() - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

getDirectWriteThreadThreshold() - Method in interface

com.oracle.common.internal.net.socketbus.SocketBusDriver.Dependencies

Return the maximum number of threads which should concurrently attempt direct writes.

25 getDrivers() - Method in class

com.oracle.common.net.exabus.util.SimpleDepot.DefaultDependencies

Return the Drivers to use in this Depot.

getDrivers() - Method in interface

com.oracle.common.net.exabus.util.SimpleDepot.Dependencies

30 Return the Drivers to use in this Depot.

getEmptyBufferArray() - Static method in class com.oracle.common.io.Buffers

Return the empty ByteBuffer array singleton.

getEmptyBufferSequence() - Static method in class com.oracle.common.io.Buffers

Return the empty BufferSequence singleton.

35 getEnabledCipherSuites() - Method in class

com.oracle.common.net.SSLSocketProvider.DefaultDependencies

Return the set of enabled SSL cipher suites.

getEnabledCipherSuites() - Method in interface

com.oracle.common.net.SSLSocketProvider.Dependencies

Return the set of enabled SSL cipher suites.

5 getEndPoint() - Method in class

com.oracle.common.internal.net.socketbus.MultiBufferMessageEvent

Return the EndPoint associated with the event, if any.

getEndPoint() - Method in class

com.oracle.common.internal.net.socketbus.SingleBufferMessageEvent

10 Return the EndPoint associated with the event, if any.

getEndPoint() - Method in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadBatch.TaskEvent

getEndPoint() - Method in interface com.oracle.common.net.exabus.Event

15 Return the EndPoint associated with the event, if any.

getEndPoint() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.StampedEvent

getEndPoint() - Method in class com.oracle.common.net.exabus.util.SimpleEvent

Return the EndPoint associated with the event, if any.

20 getEntry() - Method in class

com.oracle.common.collections.ConverterCollections.AbstractConverterEntry

Return the underlying Map.Entry.

getEntry(Map.Entry<FK, FV>, Converter<FK, TK>, Converter<FV, TV>, Converter<TV, FV>)

- Static method in class com.oracle.common.collections.ConverterCollections

25 Returns an instance of a MapEntry that uses Converters to retrieve the Entry's data.

getEntrySet() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet

Return the underlying Entry Set.

getEntrySet(Collection<Map.Entry<FK, FV>>, Converter<FK, TK>, Converter<TK, FK>,

30 Converter<FV, TV>, Converter<TV, FV>) - Static method in class

com.oracle.common.collections.ConverterCollections

Returns a Converter instance of a Set that holds Entry objects for a ConverterMap.

getEventCollector() - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus

35 Obtain the registered event collector.

getEventCollector() - Method in interface com.oracle.common.net.exabus.Bus

Obtain the registered event collector.

getEventCollector() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.EchoBus

getExecutor() - Method in class

5 com.oracle.common.net.SSLSocketProvider.DefaultDependencies

Return the Executor to use in offloading delegated tasks.

getExecutor() - Method in interface

com.oracle.common.net.SSLSocketProvider.Dependencies

Return the Executor to use in offloading delegated tasks.

10 getFactor() - Method in enum com.oracle.common.io.Bandwidth.Magnitude

Obtain the factor of the Bandwidth.Magnitude.

getFactor() - Method in enum com.oracle.common.util.Duration.Magnitude

Determine the factor of the Duration.Magnitude relative to the number of nanoseconds.

getForceAckThreshold() - Method in class

15 com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

Return the threshold at which forced acks of pending receipts is requested from the peer.

getGarbage() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.Receipt

getHeapManager() - Static method in class com.oracle.common.io.BufferManagers

20 Return the heap ByteBuffer based BufferManager.

getHostName() - Method in class com.oracle.common.net.InetSocketAddress32

Gets the hostname.

getHostnameVerifier() - Method in class

com.oracle.common.net.SSLSocketProvider.DefaultDependencies

25 Return the SSL HostnameVerifier to be used to verify hostnames once an SSL session has been established.

getHostnameVerifier() - Method in interface

com.oracle.common.net.SSLSocketProvider.Dependencies

Return the SSL HostnameVerifier to be used to verify hostnames once an SSL session has been established.

30

getIdentificationTimeoutMillis() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.DefaultDependencies

Return the number of milliseconds an accepted connection has to provide a multiplexed protocol header before it is considered to be a standard (non-multiplexed) connection.

35 getIdentificationTimeoutMillis() - Method in interface

com.oracle.common.internal.net.MultiplexedSocketProvider.Dependencies

Return the number of milliseconds an accepted connection has to provide a multiplexed protocol header before it is considered to be a standard (non-multiplexed) connection.

getIdleTimeout() - Method in class

com.oracle.common.internal.net.RunnableSelectionService

- 5 Return the duration the RunnableSelectionService.run() method should block with no registered keys before returning.

getInetAddress() - Method in class com.oracle.common.internal.net WrapperServerSocket

getInetAddress() - Method in class com.oracle.common.internal.net WrapperSocket

getInfiniBusDriver() - Method in class

- 10 com.oracle.common.net.exabus.util.SimpleDepot.DefaultDependencies

Instantiate an InfiniBusDriver.

getInputStream() - Method in class com.oracle.common.internal.net WrapperSocket

getIterator() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet.ConverterIterator

- 15 Return the underlying Iterator.

getIterator(Iterator<F>, Converter<F, T>) - Static method in class

com.oracle.common.collections.ConverterCollections

Returns an instance of Iterator that uses a Converter to view an underlying Iterator.

getKeepAlive() - Method in class com.oracle.common.internal.net WrapperSocket

- 20 getKey() - Method in class

com.oracle.common.collections.ConverterCollections.AbstractConverterEntry

getKeyString(SelectionKey) - Method in class

com.oracle.common.internal.net WrapperSelector WrapperSelectionKey

Return a description of the SelectionKey.

- 25 getLength() - Method in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection.WriteBatch

Return the number of bytes remaining in the batch.

getLength() - Method in interface com.oracle.common.io.BufferSequence

- 30 Return the byte length of the sequence.

getLength() - Method in class com.oracle.common.io.MultiBufferSequence

Return the byte length of the sequence.

getLength() - Method in class com.oracle.common.io.SingleBufferSequence

Return the byte length of the sequence.

- 35 getList() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterList

Return the underlying List.

getList(List<F>, Converter<F, T>, Converter<T, F>) - Static method in class
com.oracle.common.collections.ConverterCollections

Returns a Converter instance of List.

5 getListIterator() - Method in class
com.oracle.common.collections.ConverterCollections.ConverterListIterator

Return the underlying ListIterator.

getListIterator(ListIterator<F>, Converter<F, T>, Converter<T, F>) - Static method in class
com.oracle.common.collections.ConverterCollections

10 Returns a Converter instance of ListIterator.

getLocalAddress() - Method in class com.oracle.common.internal.net.WrapperSocket
getLocalBacklogEvents() - Method in class
com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

Return the number of local backlog events received.

15 getLocalBacklogMillis() - Method in class
com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

Return the total duration of local backlogs.

getLocalEndPoint() - Method in class
com.oracle.common.internal.net.socketbus.AbstractSocketBus

20 Return the EndPoint this bus is bound to.
getLocalEndPoint() - Method in interface com.oracle.common.net.exabus.Bus

Return the EndPoint this bus is bound to.

getLocalEndPoint() - Method in class
com.oracle.common.net.exabus.util.MessageBusTest.EchoBus

25 getLocalPort() - Method in class
com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedSocket

getLocalPort() - Method in class
com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocket

getLocalPort() - Method in class com.oracle.common.internal.net.WrapperServerSocket

30 getLocalPort() - Method in class com.oracle.common.internal.net.WrapperSocket
getLocalSegment(long, long) - Method in interface

com.oracle.common.net.exabus.MemoryBus

Return a read-only BufferSequence representing a segment of the locally hosted memory.

getLocalSocketAddress() - Method in class

35 com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedSocket
getLocalSocketAddress() - Method in class

- com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocket
getLocalSocketAddress() - Method in class
- com.oracle.common.internal.net.WrapperServerSocket
getLocalSocketAddress() - Method in class com.oracle.common.internal.net.WrapperSocket
- 5 getLogger() - Method in class
- com.oracle.common.internal.net.MultiplexedSocketProvider.DefaultDependencies
Return the Logger to use.
- getLogger() - Method in interface
- com.oracle.common.internal.net.MultiplexedSocketProvider.Dependencies
- 10 Return the Logger to use.
- getLogger() - Method in class com.oracle.common.internal.net.socketbus.AbstractSocketBus
Return the bus's logger.
- getLogger() - Method in class
- com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies
- 15 Return the Logger to use.
- getLogger() - Method in interface
- com.oracle.common.internal.net.socketbus.SocketBusDriver.Dependencies
Return the Logger to use.
- getLogger() - Method in class
- 20 com.oracle.common.net.exabus.util.SimpleDepot.DefaultDependencies
Return the Logger to use.
- getLogger() - Method in interface
- com.oracle.common.net.exabus.util.SimpleDepot.Dependencies
Return the Logger to use.
- 25 getLogger() - Method in class
- com.oracle.common.net.SSLSocketProvider.DefaultDependencies
Return the Logger to use.
- getLogger() - Method in interface com.oracle.common.net.SSLSocketProvider.Dependencies
Return the Logger to use.
- 30 getMap() - Method in class
- com.oracle.common.collections.ConverterCollections.ConverterMap
Return the underlying Map.
- getMap(Map<FK, FV>, Converter<FK, TK>, Converter<TK, FK>, Converter<FV, TV>,
Converter<TV, FV>) - Static method in class
- 35 com.oracle.common.collections.ConverterCollections
Returns a Converter instance of Map.

getMaximumProtocolVersion() - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus

Return maximum protocol version understood by this implementation.

getMaximumReceiptDelayMillis() - Method in class

5 com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Max time after which the receipt acks will be sent to the peer.

getMaximumReceiptDelayMillis() - Method in interface

com.oracle.common.internal.net.socketbus.SocketBusDriver.Dependencies

Max time after which the receipt acks will be sent to the peer.

10 getMaximumUnitSize() - Method in class

com.oracle.common.internal.io.AbstractBufferManager

Return the maximum allocation size.

getMemoryBusProtocol() - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

15 Return the MemoryBus protocol prefix.

getMemoryBusProtocol() - Method in interface

com.oracle.common.internal.net.socketbus.SocketBusDriver.Dependencies

Return the MemoryBus protocol prefix.

getMessage(int, long, long) - Static method in class

20 com.oracle.common.net.exabus.util.MessageBusTest

Construct a message.

getMessageBusProtocol() - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Return the MessageBus protocol prefix.

25 getMessageBusProtocol() - Method in interface

com.oracle.common.internal.net.socketbus.SocketBusDriver.Dependencies

Return the MessageBus protocol prefix.

getMessageIn() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

30 Return the number of messages received.

getMessageOut() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

Return the number of Messages sent.

getMessageOut() - Method in class

35 com.oracle.common.net.exabus.util.MessageBusTest.Transmitter

Return the number of Messages sent.

- getMinimumProtocolVersion() - Method in class
com.oracle.common.internal.net.socketbus.AbstractSocketBus
Return minimum protocol version understood by this implementation.
- getMinimumUnitSize() - Method in class
5 com.oracle.common.internal.io.AbstractBufferManager
Return the minimum allocation size.
- getMultiplexedSocketAddress(SocketAddress) - Method in class
com.oracle.common.internal.net.DemultiplexedSocketProvider
Helper method to convert InetSocketAddress to InetSocketAddress32 for use by
10 MultiplexedSocketProvider
- getNanos() - Method in class com.oracle.common.util.Duration
Obtains the number of nano seconds in the Duration.
- getNetworkDirectManager() - Static method in class com.oracle.common.io.BufferManagers
Return the network optimized direct ByteBuffer based BufferManager.
- 15 getOOBInline() - Method in class com.oracle.common.internal.net.WrapperSocket
getOption(int) - Method in class com.oracle.common.net.SocketSettings
getOutputStream() - Method in class com.oracle.common.internal.net.WrapperSocket
getPacketSize() - Method in class
com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection
20 Return the packet size for this connection.
- getPeer() - Method in class
com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection
Return the peer associated with this connection.
- getPeers() - Method in class
25 com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor
Return the set of peers this processor is configured to transmit to
- getPort() - Method in class
com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedSocket
getPort() - Method in class
30 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocket
getPort() - Method in class com.oracle.common.internal.net.WrapperSocket
getPort() - Method in class com.oracle.common.net.InetSocketAddress32
Gets the port number.
- getPreferredUnitSize() - Method in class
35 com.oracle.common.internal.io.AbstractBufferManager
Return the preferred unit size.

getPrevious() - Method in class com.oracle.common.collections.AbstractStableIterator

Obtain the previous object provided by the Iterator.

getProtocol() - Method in class com.oracle.common.net.exabus.util.UrlEndPoint

Return the protocol represented by this EndPoint.

5 getProtocolIdentifier() - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus

Return the protocol identifier.

getProtocolName() - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus

10 Return the protocol name.

getProtocolName() - Method in class

com.oracle.common.internal.net.socketbus.SocketMessageBus

Return the protocol name.

getProtocolReadyOps() - Method in class

15 com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey

Return the SelectionKey operations which are ready on the SSLSelectableChannel protocol but not necessarily to the delegate channel.

getReadThrottleThreshold() - Method in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection

20 Return the threshold at which to stop reading additional data from the socket, based on the number of undisposed bytes in the event queue.

getReceiptNanos() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

Return the cumulative receipts time.

25 getReceiptRequestThreshold() - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Threshold at which to request an immediate receipt from the peer.

getReceiptRequestThreshold() - Method in interface

com.oracle.common.internal.net.socketbus.SocketBusDriver.Dependencies

30 Threshold at which to request an immediate receipt from the peer.

getReceiptSamples() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

Return the number of receipt samples

getReceiptsIn() - Method in class

35 com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

Return the number of returned receipts.

getReceiveBufferSize() - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

Return the receive buffer size for the underlying socket.

getReceiveBufferSize() - Method in class

5 com.oracle.common.internal.net.WrapperServerSocket

getReceiveBufferSize() - Method in class com.oracle.common.internal.net.WrapperSocket

getReceivedBytes() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.DemultiplexingCollector

Return the total number of received bytes.

10 getRegisteredConnections() - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus

Return a collection containing all the currently registered connections.

getRemoteBacklogEvents() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

15 Return the number of remote backlog events received.

getRemoteBacklogMillis() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.Transmitter

Return the total number of milliseconds for which the transmitter was blocked.

getRemoteSocketAddress() - Method in class

20 com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedSocket

getRemoteSocketAddress() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocket

getRemoteSocketAddress() - Method in class

com.oracle.common.internal.net.WrapperSocket

25 getResidualBitMask() - Method in enum com.oracle.common.io.MemorySize.Magnitude

Obtain the bit mask that when applied will return the fractional (right-most) bits that are below this MemorySize.Magnitude unit.

getResponseNanos() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

30 Return the cumulative response time.

getResponsesIn() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

Return the number of received responses.

getReuseAddress() - Method in class com.oracle.common.internal.net.WrapperServerSocket

35 getReuseAddress() - Method in class com.oracle.common.internal.net.WrapperSocket

getSafeBuffer() - Method in class com.oracle.common.io.SingleBufferSequence

Return a view of the ByteBuffer which has it's position and limit set to their original values.

getSegment(int, int) - Method in class

com.oracle.common.internal.net.socketbus.SharedBuffer

Return a segment of the shared buffer.

5 getSegment() - Method in class com.oracle.common.internal.net.socketbus.SharedBuffer

Return a segment of the shared buffer covering its current position to limit.

getSelectionService() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.DefaultDependencies

getSelectionService() - Method in interface

10 com.oracle.common.internal.net.MultiplexedSocketProvider.Dependencies

Return the SelectionService to utilize for processing IO.

getSelectionService(SelectableChannel) - Method in class

com.oracle.common.internal.net.MultiProviderSelectionService

getSelectionService() - Method in class

15 com.oracle.common.internal.net.socketbus.AbstractSocketBus

Return the SelectionService for this Bus.

getSelectionService() - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Return the SelectionService used to run this driver.

20 getSelectionService() - Method in interface

com.oracle.common.internal.net.socketbus.SocketBusDriver.Dependencies

Return the SelectionService used to run this driver.

getSendBufferSize() - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

25 Return the send buffer size for the underlying socket.

getSendBufferSize() - Method in class com.oracle.common.internal.net WrapperSocket

getSet(Set<F>, Converter<F, T>, Converter<T, F>) - Static method in class

com.oracle.common.collections.ConverterCollections

Returns an instance of Set that uses a Converter to view an underlying Set.

30 getSocketAddressHasher() - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Return the SocketAddress Hasher to use in comparing SocketAddresses.

getSocketAddressHasher() - Method in interface

com.oracle.common.internal.net.socketbus.SocketBusDriver.Dependencies

35 Return the SocketAddress Hasher to use in comparing SocketAddresses.

getSocketDriver() - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus

Return the SocketDriver for this bus.

getSocketOptions() - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

5 Return the SocketOptions to utilize in this driver.

getSocketOptions() - Method in interface

com.oracle.common.internal.net.socketbus.SocketBusDriver.Dependencies

Return the SocketOptions to utilize in this driver.

getSocketProvider() - Method in class

10 com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Return the SocketProvider to use in producing sockets for this driver.

getSocketProvider() - Method in interface

com.oracle.common.internal.net.socketbus.SocketBusDriver.Dependencies

Return the SocketProvider to use in producing sockets for this driver.

15 getSocketProvider() - Method in class

com.oracle.common.internal.net.ssl.SSLServerSocketChannel

Return the SocketProvider which produced this socket.

getSocketProvider() - Method in class

com.oracle.common.internal.net.ssl.SSLSocketChannel

20 Return the SocketProvider which produced this socket.

getSocketReconnectDelayMillis() - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Reconnect interval for the Connection

getSocketReconnectDelayMillis() - Method in interface

25 com.oracle.common.internal.net.socketbus.SocketBusDriver.Dependencies

Reconnect interval for the Connection

getSoLinger() - Method in class com.oracle.common.internal.net WrapperSocket

getSortedMap() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterSortedMap

30 Return the underlying SortedMap.

getSortedMap(SortedMap<FK, FV>, Converter<FK, TK>, Converter<TK, FK>,

Converter<FV, TV>, Converter<TV, FV>) - Static method in class

com.oracle.common.collections.ConverterCollections

Returns a Converter instance of SortedMap.

35 getSortedSet() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterSortedSet

Return the underlying SortedSet.

getSortedSet(SortedSet<F>, Converter<F, T>, Converter<T, F>) - Static method in class
com.oracle.common.collections.ConverterCollections

Returns an instance of SortedSet that uses a Converter to view an underlying SortedSet.

5 getSoTimeout() - Method in class com.oracle.common.internal.net.WrapperServerSocket

getSoTimeout() - Method in class com.oracle.common.internal.net.WrapperSocket

getSSLContext() - Method in class

com.oracle.common.net.SSLSocketProvider.DefaultDependencies

Return the SSLContext representing the SSL implementation and configuration.

10 getSSLContext() - Method in interface

com.oracle.common.net.SSLSocketProvider.Dependencies

Return the SSLContext representing the SSL implementation and configuration.

getSSLParameters() - Method in class

com.oracle.common.net.SSLSocketProvider.DefaultDependencies

15 Return a copy of the SSLParameters used by the SSLSocketProvider.

getSSLParameters() - Method in interface

com.oracle.common.net.SSLSocketProvider.Dependencies

Return a copy of the SSLParameters used by the SSLSocketProvider.

getSubPort(int) - Static method in class

20 com.oracle.common.internal.net.MultiplexedSocketProvider

Return the sub-port for a given 32b port.

getSubPort() - Method in enum

com.oracle.common.internal.net.MultiplexedSocketProvider.WellKnownSubPorts

getSuffix() - Method in enum com.oracle.common.io.Bandwidth.Magnitude

25 Obtain the suffix of the Bandwidth.Magnitude.

getSuffix() - Method in enum com.oracle.common.io.Bandwidth.Rate

Obtain the suffix that identifies the Bandwidth.Rate.

getSuffix() - Method in enum com.oracle.common.io.MemorySize.Magnitude

Obtain the suffix of the MemorySize.Magnitude.

30 getSuffix() - Method in enum com.oracle.common.util.Duration.Magnitude

Obtain the default for the Duration.Magnitude.

getTcpNoDelay() - Method in class com.oracle.common.internal.net.WrapperSocket

getTimestampNanos() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.Receipt

35 getTimestampNanos() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.StampedEvent

getTrafficClass() - Method in class com.oracle.common.internal.net.WrapperSocket

getTransportAddress(InetSocketAddress32) - Static method in class
com.oracle.common.internal.net.MultiplexedSocketProvider

Return the underlying transport address for the specified address.

5 getType() - Method in class
com.oracle.common.internal.net.socketbus.MultiBufferMessageEvent

Determine the event type.

getType() - Method in class
com.oracle.common.internal.net.socketbus.SingleBufferMessageEvent

10 Determine the event type.

getType() - Method in class
com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadB
atch.TaskEvent

getType() - Method in interface com.oracle.common.net.exabus.Event

15 Determine the event type.

getType() - Method in class
com.oracle.common.net.exabus.util.MessageBusTest.StampedEvent

getType() - Method in class com.oracle.common.net.exabus.util.SimpleEvent

Determine the event type.

20 getValue() - Method in class
com.oracle.common.collections.ConverterCollections.AbstractConverterEntry

hashCode(V) - Method in interface com.oracle.common.base.Hasher

25 Return a hash for the specified object.

hashCode(V) - Method in class com.oracle.common.base.IdentityHasher

Return a hash for the specified object.

hashCode(V) - Method in class com.oracle.common.base.NaturalHasher

Return a hash for the specified object.

30 hashCode() - Method in class
com.oracle.common.collections.ConverterCollections.AbstractConverterEntry

hashCode() - Method in class
com.oracle.common.collections.ConverterCollections.ConverterEntrySet

hashCode() - Method in class

35 com.oracle.common.collections.ConverterCollections.ConverterList

hashCode() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterMap

hashCode() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterSet

hashCode() - Method in class com.oracle.common.collections.UnmodifiableSetCollection

5 hashCode() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelectorProvider

hashCode() - Method in class com.oracle.common.internal.net.ssl.SSLSelectorProvider

hashCode() - Method in class com.oracle.common.io.Bandwidth

hashCode() - Method in class com.oracle.common.io.MemorySize

10 hashCode() - Method in interface com.oracle.common.net.exabus.EndPoint

hashCode() - Method in class com.oracle.common.net.exabus.util.UrlEndPoint

hashCode(InetAddress) - Method in class com.oracle.common.net.InetAddressHasher

Return a hash for the specified object.

hashCode() - Method in class com.oracle.common.net.InetSocketAddress32

15 Returns a hashcode for this socket address.

hashCode(SocketAddress) - Method in class

com.oracle.common.net.InetSocketAddressHasher

Return a hash for the specified object.

hashCode() - Method in class com.oracle.common.util.Duration

20 Hasher<V> - Interface in com.oracle.common.base

A Hasher provides an external means for producing hash codes and comparing objects for equality.

HashSelectionService - Class in com.oracle.common.internal.net

The HashSelectionService partitions channel registrations over a number of child

25 SelectionServices for the purposes of load balancing.

HashSelectionService(int, Factory<? extends SelectionService>) - Constructor for class

com.oracle.common.internal.net.HashSelectionService

Construct a HashSelectionService which delegates to the provided SelectionServices.

HashSelectionService.ServiceFactory - Class in com.oracle.common.internal.net

30 Factory for producing HashSelectionServices.

HashSelectionService.ServiceFactory(int, Factory<? extends SelectionService>) -

Constructor for class com.oracle.common.internal.net.HashSelectionService.ServiceFactory

Construct a Service Factory which will produce HashSelectionServices with a given configuration.

35 hasMoreElements() - Method in class com.oracle.common.collections.AbstractStableIterator

hasMoreElements() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEnumerator

Tests if this enumeration contains more elements.

hasNext() - Method in class com.oracle.common.collections.AbstractStableIterator

hasNext() - Method in class

5 com.oracle.common.collections.ConverterCollections.ConverterEntrySet.ConverterIterator

hasNext() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEnumerator

Determine if this Iterator contains more elements.

hasNext() - Method in class

10 com.oracle.common.collections.ConverterCollections.ConverterListIterator

hasPrevious() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterListIterator

headMap(TK) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterSortedMap

15 headSet(T) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterSortedSet

HIGHEST - Static variable in enum com.oracle.common.io.Bandwidth.Magnitude

The highest defined order of Bandwidth.Magnitude.

HIGHEST - Static variable in enum com.oracle.common.io.MemorySize.Magnitude

20 The highest defined order of MemorySize.Magnitude.

HIGHEST - Static variable in enum com.oracle.common.util.Duration.Magnitude

The highest defined order of Duration.Magnitude.

Holder<V> - Interface in com.oracle.common.base

A Holder is a reference like object, i.e.

25

IB_MEMORY_BUS_PROTOCOL - Static variable in class

com.oracle.common.net.exabus.util.SimpleDepot

Protocol name for the InfiniBus memory bus.

30 IB_MESSAGE_BUS_PROTOCOL - Static variable in class

com.oracle.common.net.exabus.util.SimpleDepot

Protocol name for the InfiniBus message bus.

IdentityHasher<V> - Class in com.oracle.common.base

IdentityHasher provides a Hasher implementation based upon an object's identity

35 hashCode and reference equality.

IdentityHasher() - Constructor for class com.oracle.common.base.IdentityHasher

- implCloseSelectableChannel() - Method in class
com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedServerSocketChannel
- implCloseSelectableChannel() - Method in class
5 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel
- implCloseSelectableChannel() - Method in class
com.oracle.common.internal.net.ssl.SSLSocketChannel
- implCloseSelectableChannel() - Method in class
com.oracle.common.internal.net.WrapperServerSocketChannel
- 10 implCloseSelectableChannel() - Method in class
com.oracle.common.internal.net.WrapperSocketChannel
- implCloseSelector() - Method in class
com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelector
- implCloseSelector() - Method in class com.oracle.common.internal.net.WrapperSelector
- 15 implConfigureBlocking(boolean) - Method in class
com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedServerSocketChannel
- implConfigureBlocking(boolean) - Method in class
com.oracle.common.internal.net.ssl.SSLServerSocketChannel
- 20 implConfigureBlocking(boolean) - Method in class
com.oracle.common.internal.net.ssl.SSLSocketChannel
- implConfigureBlocking(boolean) - Method in class
com.oracle.common.internal.net.WrapperServerSocketChannel
- implConfigureBlocking(boolean) - Method in class
com.oracle.common.internal.net.WrapperSocketChannel
- 25 indexOf(Object) - Method in class
com.oracle.common.collections.ConverterCollections.ConverterList
- InetAddressComparator - Class in com.oracle.common.net
Comparator implementation suitable for comparing InetAddresses.
- 30 InetAddressComparator() - Constructor for class
com.oracle.common.net.InetAddressComparator
- InetAddressHasher - Class in com.oracle.common.net
InetAddressHasher is a Hasher which supports both IPv4 and IPv6 InetAddresses.
- InetAddressHasher() - Constructor for class com.oracle.common.net.InetAddressHasher
- 35 InetSocketAddress32 - Class in com.oracle.common.net
InetSocketAddress32 is equivalent to the standard InetSocketAddress but supports 32 bit

port numbers.

`InetSocketAddress32(int)` - Constructor for class
`com.oracle.common.net.InetSocketAddress32`

Creates a socket address where the IP address is the wildcard address and the port
 5 number a specified value.

`InetSocketAddress32(InetAddress, int)` - Constructor for class
`com.oracle.common.net.InetSocketAddress32`

Creates a socket address from an IP address and a port number.

`InetSocketAddress32(String, int)` - Constructor for class
 10 `com.oracle.common.net.InetSocketAddress32`

Creates a socket address from a hostname and a port number.

`InetSocketAddressComparator` - Class in `com.oracle.common.net`

Comparator implementation suitable for comparing `InetSocketAddress` objects.

`InetSocketAddressComparator()` - Constructor for class
 15 `com.oracle.common.net.InetSocketAddressComparator`

`InetSocketAddressHasher` - Class in `com.oracle.common.net`

`InetSocketAddressHasher` is a `Hasher` which supports both IPv4 and IPv6 based
`InetSocketAddress`s.

`InetSocketAddressHasher()` - Constructor for class
 20 `com.oracle.common.net.InetSocketAddressHasher`

`InetSocketAddressProvider` - Class in `com.oracle.common.net`

`InetSocketAddressProvider` is a `SocketProvider` which utilizes `InetSocketAddress`s.

`InetSocketAddressProvider()` - Constructor for class `com.oracle.common.net.InetSocketAddressProvider`

`INFINI_BUS` - Static variable in class `com.oracle.common.net.exabus.util.SimpleDepot`

25 Driver name for InifiBus.

`InputStreaming` - Interface in `com.oracle.common.io`

This is the interface represented by the Java `InputStream` class.

`INSTANCE` - Static variable in class `com.oracle.common.base.IdentityHasher`

A singleton instance of the `IdentityHasher`.

30 `INSTANCE` - Static variable in class `com.oracle.common.base.NaturalHasher`

A singleton instance of the `NaturalHasher`.

`INSTANCE` - Static variable in class `com.oracle.common.net.InetAddressComparator`

Reusable instance of the comparator.

`INSTANCE` - Static variable in class `com.oracle.common.net.InetAddressHasher`

35 Default instance of the `InetAddressHasher`.

`INSTANCE` - Static variable in class `com.oracle.common.net.InetSocketAddressComparator`

Reusable instance of the comparator.

INSTANCE - Static variable in class com.oracle.common.net.InetSocketAddressHasher
Default instance of the InetSocketAddressHasher.

INSTANCE - Static variable in class com.oracle.common.net.SdpSocketProvider

5 A default SdpSocketProvider instance.

INSTANCE - Static variable in class com.oracle.common.net.TcpSocketProvider
A default TcpSocketProvider instance.

INSTANCE - Static variable in class com.oracle.common.util.DaemonThreadFactory
A reusable DaemonThreadFactory instance.

10 instantiateCollection(Collection<F>, Converter<F, T>, Converter<T, F>) - Static method in
class com.oracle.common.collections.ConverterCollections.ConverterCollection
Create a Converter Collection.

instantiateCollection(Collection<F>, Converter<F, T>, Converter<T, F>) - Static method in
class com.oracle.common.collections.ConverterCollections.ConverterMap

15 Create a Converter Collection.

instantiateEntrySet(Collection<Map.Entry<FK, FV>>, Converter<FK, TK>, Converter<TK,
FK>, Converter<FV, TV>, Converter<TV, FV>) - Static method in class
com.oracle.common.collections.ConverterCollections.ConverterEntrySet

Create a Converter Entry Set.

20 instantiateEntrySet(Set<Map.Entry<FK, FV>>, Converter<FK, TK>, Converter<TK, FK>,
Converter<FV, TV>, Converter<TV, FV>) - Method in class
com.oracle.common.collections.ConverterCollections.ConverterMap

Create a Converter Entry Set.

instantiateIterator(Iterator<F>, Converter<F, T>) - Method in class

25 com.oracle.common.collections.ConverterCollections.ConverterCollection
Create a Converter Iterator.

instantiateList(List<F>, Converter<F, T>, Converter<T, F>) - Static method in class
com.oracle.common.collections.ConverterCollections.ConverterList

Create a Converter List.

30 instantiateListIterator(ListIterator<F>, Converter<F, T>, Converter<T, F>) - Static method in
class com.oracle.common.collections.ConverterCollections.ConverterList

Create a Converter ListIterator.

instantiateMap(Map<FK, FV>, Converter<FK, TK>, Converter<TK, FK>, Converter<FV, TV>,
Converter<TV, FV>) - Static method in class

35 com.oracle.common.collections.ConverterCollections.ConverterMap

Create a Converter Map.

instantiateSet(Set<F>, Converter<F, T>, Converter<T, F>) - Static method in class
com.oracle.common.collections.ConverterCollections.ConverterMap

Create a Converter Set.

instantiateSortedMap(SortedMap<FK, FV>, Converter<FK, TK>, Converter<TK, FK>,
5 Converter<FV, TV>, Converter<TV, FV>) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterSortedMap

Create a Converter SortedMap.

instantiateSortedSet(SortedSet<F>, Converter<F, T>, Converter<T, F>) - Method in class
com.oracle.common.collections.ConverterCollections.ConverterSortedSet

10 Create a Converter SortedSet.

interestData(int) - Method in class

com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey

Specify the operations of interest to the SSL data layer.

interestData() - Method in class

15 com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey

Return the interest operations for the SSL data layer

interestOps() - Method in class

com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey

interestOps(int) - Method in class

20 com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey

interestOps() - Method in class

com.oracle.common.internal.net WrapperSelector WrapperSelectionKey

interestOps(int) - Method in class

com.oracle.common.internal.net WrapperSelector WrapperSelectionKey

25 interestProtocol(int, int) - Method in class

com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey

The operations of interest to the SSL protocol layer.

interestProtocol() - Method in class

com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey

30 Get the interest operations for the SSL protocol layer

invalidate() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterCollection

Drop references to the underlying Collection and the Converters.

invoke(SelectableChannel, Runnable, long) - Method in class

35 com.oracle.common.internal.net.HashSelectionService

Invoke the runnable by the SelectionService.

invoke(SelectableChannel, Runnable, long) - Method in class
com.oracle.common.internal.net.MultiProviderSelectionService

Invoke the runnable by the SelectionService.

invoke(SelectableChannel, Runnable, long) - Method in class

5 com.oracle.common.internal.net.ResumableSelectionService

Invoke the runnable by the SelectionService.

invoke(SelectableChannel, Runnable, long) - Method in class

com.oracle.common.internal.net.RunnableSelectionService

Invoke the runnable by the SelectionService.

10 invoke(Runnable) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

Schedule an invocation against this channel on the SelectionService.

invoke(SelectableChannel, Runnable, long) - Method in interface

com.oracle.common.net.SelectionService

15 Invoke the runnable by the SelectionService.

isBound() - Method in class com.oracle.common.internal.net.WrapperServerSocket

isBound() - Method in class com.oracle.common.internal.net.WrapperSocket

isClientAuthenticationRequired() - Method in class

com.oracle.common.net.SSLSocketProvider.DefaultDependencies

20 Return true iff produced server sockets will require client authentication.

isClientAuthenticationRequired() - Method in interface

com.oracle.common.net.SSLSocketProvider.Dependencies

Return true iff produced server sockets will require client authentication.

isClosed() - Method in class com.oracle.common.internal.net.WrapperServerSocket

25 isClosed() - Method in class com.oracle.common.internal.net.WrapperSocket

isConnected() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel

isConnected() - Method in class com.oracle.common.internal.net.WrapperSocket

isConnected() - Method in class com.oracle.common.internal.net.WrapperSocketChannel

30 isConnectionPending() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel

isConnectionPending() - Method in class

com.oracle.common.internal.net.WrapperSocketChannel

isEmpty() - Method in class

35 com.oracle.common.collections.ConverterCollections.ConverterCollection

isEmpty() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet

isEmpty() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterMap

isEmpty() - Method in class com.oracle.common.collections.UnmodifiableSetCollection

5 isFlushInProgress() - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

Return true if some thread is actively waiting to flush this connection.

isFlushRequired() - Method in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

10 Return true there is application data pending a flush.

isIdle() - Method in class com.oracle.common.internal.net.RunnableSelectionService

Indicate if the service is idle (has no registered channels)).

isInputShutdown() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocket

15 isInputShutdown() - Method in class com.oracle.common.internal.net WrapperSocket

isOpen() - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

Return true iff the connection has not been released.

isOutputShutdown() - Method in class com.oracle.common.internal.net WrapperSocket

20 isPending() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.Listener.Switcher

Return true iff the channel has yet to be "accepted".

isPortExtended(int) - Static method in class

com.oracle.common.internal.net.MultiplexedSocketProvider

25 Return true iff the specified port represents an extended port.

isReceiptFlushRequired() - Method in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

Return true iff there are pending receipts that needs to be flushed but no application data to flush

30 issueLocalBacklog(Event) - Method in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadBatch

Put this connection in the local backlog state, issuing any requisite events.

isSuffix(String) - Method in enum com.oracle.common.io.Bandwidth.Magnitude

35 Determine if the passed suffix is compatible with this Bandwidth.Magnitude's suffix, ignoring case.

isSuffix(String) - Method in enum com.oracle.common.io.MemorySize.Magnitude

Determine if the passed suffix is compatible with this MemorySize.Magnitude's suffix, ignoring case.

isSuffix(String) - Method in enum com.oracle.common.util.Duration.Magnitude

- 5 Determine if the passed suffix is compatible with this Duration.Magnitude's suffix, ignoring case.

isSupported(EndPoint) - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver

Indicate if the specified EndPoint is supported by this driver.

- 10 isSupported(EndPoint) - Method in interface com.oracle.common.net.exabus.spi.Driver

Indicate if the specified EndPoint is supported by this driver.

isSupported(EndPoint) - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.EchoBus.EchoDriver

isUnderUtilized(ByteBuffer) - Method in class

- 15 com.oracle.common.internal.io.AbstractBufferManager

Identify if the specified buffer is under utilized.

isUnresolved() - Method in class com.oracle.common.net.InetSocketAddress32

Checks whether the address has been resolved or not.

isValid() - Method in class

- 20 com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

Return if the connection is valid

isValid() - Method in class

com.oracle.common.internal.net.WrapperSelector.WrapperSelectionKey

iterator() - Method in class

- 25 com.oracle.common.collections.ConverterCollections.ConverterCollection

iterator() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet

iterator() - Method in class com.oracle.common.collections.UnmodifiableSetCollection

30

keys() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelector

keys() - Method in class com.oracle.common.internal.net.WrapperSelector

keySet() - Method in class

- 35 com.oracle.common.collections.ConverterCollections.ConverterMap

- last() - Method in class
com.oracle.common.collections.ConverterCollections.ConverterSortedSet
- lastIndexOf(Object) - Method in class
- 5 com.oracle.common.collections.ConverterCollections.ConverterList
- lastKey() - Method in class
com.oracle.common.collections.ConverterCollections.ConverterSortedMap
- listIterator() - Method in class
com.oracle.common.collections.ConverterCollections.ConverterList
- 10 listIterator(int) - Method in class
com.oracle.common.collections.ConverterCollections.ConverterList
- LOGGER - Variable in class com.oracle.common.internal.io.CheckedBufferManager
The Logger to use.
- LOGGER - Static variable in class com.oracle.common.internal.io.SegmentedBufferManager
- 15 The logger.
- LOWEST - Static variable in enum com.oracle.common.io.Bandwidth.Magnitude
The lowest defined order of Bandwidth.Magnitude.
- LOWEST - Static variable in enum com.oracle.common.io.MemorySize.Magnitude
The lowest defined order of MemorySize.Magnitude.
- 20 LOWEST - Static variable in enum com.oracle.common.util.Duration.Magnitude
The lowest defined order of Duration.Magnitude.
- m_aBuffClear - Variable in class com.oracle.common.internal.net.ssl.SSLSocketChannel
- 25 An ByteBuffer array containing just the clear text buffer
- m_aBuffer - Variable in class
com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection.WriteBatch
- The ByteBuffer array.
- 30 m_aBuffer - Variable in class
com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadBatch
- The ByteBuffer array.
- m_aBuffer - Variable in class com.oracle.common.io.MultiBufferSequence
- 35 The ByteBuffer array.
- m_aBufferRecycle - Variable in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection.WriteBatch

The optional ByteBuffer array to recycle in dispose.

m_aBuffSingleInbound - Variable in class

5 com.oracle.common.internal.net.ssl.SSLSocketChannel

A reusable single element buffer array for reads, which also serves as the monitor to protect against multiple concurrent readers.

m_aBuffSingleOutbound - Variable in class

com.oracle.common.internal.net.ssl.SSLSocketChannel

10 A reusable single element buffer array for writes, which also serves as the monitor to protect against multiple concurrent writers.

m_addressLocal - Variable in class

com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedSocket
Local address

15 m_addressRemote - Variable in class

com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedSocket
Peer address

m_addrLocal - Variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocket

20 Local address

m_addrLocal - Variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel
The socket's local address.

m_addrPeer - Variable in class

25 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocket
Peer address

m_addrPeer - Variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel
The peer's address.

30 m_aPosLimit - Variable in class com.oracle.common.io.MultiBufferSequence

An array of the original positions and limits of each buffer.

m_aProcessor - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.DemultiplexingCollector
The array of processors to dispatch to.

35 m_asCipherSuitesEnabled - Variable in class

com.oracle.common.net.SSLSocketProvider.DefaultDependencies

The enabled cipher suites or null for default.

m_aServices - Variable in class com.oracle.common.internal.net.HashSelectionService

An array of child SelectionServices.

m_aSet - Variable in class com.oracle.common.collections.UnmodifiableSetCollection

5 Wrapped sets

m_aTransmitter - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

The number of transmit threads to run.

m_buf - Variable in class

10 com.oracle.common.internal.net.MultiplexedSocketProvider.Listener.Switcher

m_buf - Variable in class com.oracle.common.io.BufferSequenceInputStream

The ByteBuffer object from which data is read.

m_buffClearIn - Variable in class com.oracle.common.internal.net.ssl.SSLSocketChannel

Buffered "clear text" data ready to be delivered to the user of this channel.

15 m_buffEncIn - Variable in class com.oracle.common.internal.net.ssl.SSLSocketChannel

Buffered encrypted data from the delegate channel, waiting to be decrypted.

m_buffEncOut - Variable in class com.oracle.common.internal.net.ssl.SSLSocketChannel

Buffered encrypted data waiting to be written to the delegate channel.

m_buffer - Variable in class com.oracle.common.internal.net.socketbus.SharedBuffer

20 The buffer.

m_buffer - Variable in class com.oracle.common.io.BufferSequenceOutputStream

The current "unflushed" buffer.

m_buffer - Variable in class com.oracle.common.io.SingleBufferSequence

The ByteBuffer.

25 m_buffer0 - Variable in class

com.oracle.common.internal.net.socketbus.MultiBufferMessageEvent

The SharedBuffer which manages the first accessible buffer in the array, i.e.

m_bufferManager - Variable in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

30 The BufferManager.

m_bufferMsgHdr - Variable in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection

ByteBuffer to write Message headers

m_bufferN - Variable in class

35 com.oracle.common.internal.net.socketbus.MultiBufferMessageEvent

The SharedBuffer which manages the last accessible buffer in the array, i.e.

m_bufferRecycleOutboundReceipts - Variable in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

ByteBuffer to write Receipt messages

m_bufferSegment - Variable in class

5 com.oracle.common.internal.net.socketbus.SharedBuffer.Segment

The local accessible portion of the shared buffer.

m_bufferShared - Variable in class

com.oracle.common.internal.net.socketbus.SingleBufferMessageEvent

The SharedBuffer which manages buffer.

10 m_bufferShared - Variable in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadBatch

Shared buffer protecting remainder of buffer at m_ofReadable.

m_bufHeaderIn - Variable in class

15 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel

The inbound protocol header, or more specifically bytes which were read looking for the header but need to be returned from socket read calls before any further socket data.

m_bufHeaderOut - Variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel

20 The outbound protocol header.

m_bufseq - Variable in class com.oracle.common.io.BufferSequenceInputStream

The BufferSequence object from which data is read.

m_bus - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.DemultiplexingCollector

25 The Bus associated with the EventProcessors.

m_bus - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

The MessageBus for this processor.

m_bus - Variable in class com.oracle.common.net.exabus.util.MessageBusTest.Transmitter

30 The associated MessageBus.

m_cb - Variable in class com.oracle.common.io.BufferSequenceInputStream

The number of bytes remaining in the stream.

m_cb - Variable in class com.oracle.common.io.BufferSequenceOutputStream

The sequence length.

35 m_cBacklogEventsLocal - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

The total number of local backlog events received.

m_cBacklogEventsRemote - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

The total number of remote backlog events received.

5 m_cBacklogLocal - Variable in class

com.oracle.common.internal.net.socketbus.SocketMessageBus

The count of the number of connections in the local backlog state.

m_cBacklogMillisLocal - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

10 The total number of milliseconds for which the EventProcessor was locally backlogged.

m_cbAutoFlush - Variable in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Auto flush threshold

m_cbAutoFlushThreshold - Variable in class

15 com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

The auto-flush threshold.

m_cbBacklogExcessiveThreshold - Variable in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

The excessive backlog threshold.

20 m_cbBatch - Variable in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection.WriteBatch

The total number of bytes remaining in the batch.

m_cbBuffer - Variable in class com.oracle.common.io.MultiBufferSequence

25 The number of bytes in the sequence.

m_cbEventQueue - Variable in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection

The approximate size of the data in the event queue.

m_cbForceAckThreshold - Variable in class

30 com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

The force ack threshold.

m_cbIn - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

The number of bytes read.

35 m_cbMark - Variable in class com.oracle.common.io.BufferSequenceInputStream

The number of bytes remaining in the stream after the mark.

m_cbOut - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

The number of bytes written.

m_cbOut - Variable in class

5 com.oracle.common.net.exabus.util.MessageBusTest.Transmitter

The number of bytes written.

m_cbQueued - Variable in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

The number of bytes in the write queue.

10 m_cbReadable - Variable in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadBatch

The number of readable bytes.

m_cbReadThreshold - Variable in class

15 com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection

The limit on how much inbound data to buffer.

m_cbReceiptRequest - Variable in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Threshold after which to request receipts.

20 m_cbReceived - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.DemultiplexingCollector

Array containing received message size totals.

m_cbRequired - Variable in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadBatch

25

The number of bytes required for the next header or message.

m_cbs - Variable in class com.oracle.common.net.exabus.util.MessageBusTest.Transmitter

The target data rate.

m_cbsIn - Variable in class

30 com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

The target inbound data rate.

m_cBuffer - Variable in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection.WriteBatch

35 The number of buffers remaining.

m_cBuffer - Variable in class com.oracle.common.io.MultiBufferSequence

The number of ByteBuffers in the sequence.

m_cBufferRecycle - Variable in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection.WriteBatch

5 The number of buffers to recycle.

m_cBufferWritable - Variable in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadBatch

The number of unfilled buffers remaining, starting at m_ofWritable.

10 m_cbWritable - Variable in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadBatch

The number of writable bytes.

m_cBytesUnacked - Variable in class

15 com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

As estimate of the number of unacked bytes since the last received ack or sent forced flush.

m_cConnections - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

20 The number of open connections.

m_channel - Variable in class

com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedSocket

Associated Socket channel.

m_channel - Variable in class

25 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocket

Associated Socket channel.

m_cJobsPending - Variable in class com.oracle.common.internal.net.ssl.SSLSocketChannel

The number of pending jobs scheduled on behalf of the engine.

m_cMaxReceiptDelayMillis - Variable in class

30 com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Maximum receipt ack delay in millis

m_cMillisBacklog - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.Transmitter

The number of milliseconds the transmitter was blocked waiting for peers.

35 m_cMillisIdentify - Variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider.DefaultDependencies

The accept timeout.

m_cMsgIn - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

The number of received messages.

5 m_cMsgOut - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

The number of sent messages.

m_cMsgOut - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.Transmitter

10 The number of sent messages.

m_cNameSuffix - Variable in class com.oracle.common.util.DaemonThreadFactory

The thread name counter.

m_col - Variable in class

com.oracle.common.collections.ConverterCollections.ConverterCollection

15 The underlying Collection.

m_collector - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EchoBus

m_connection - Variable in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.HandshakeHandler

20 Non-null once we can associate the handshake with a local Connection.

m_conv - Variable in class

com.oracle.common.collections.ConverterCollections.ConverterEnumerator

Converter to convert each item.

m_convDown - Variable in class

25 com.oracle.common.collections.ConverterCollections.ConverterCollection

The Converter from this Collection to the underlying Collection.

m_convDown - Variable in class

com.oracle.common.collections.ConverterCollections.ConverterListIterator

The Converter from this ListIterator to the underlying ListIterator.

30 m_convKeyDown - Variable in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet

The Converter used to pass keys down to the Entry Set.

m_convKeyDown - Variable in class

com.oracle.common.collections.ConverterCollections.ConverterMap

35 The Converter used to pass keys down to the Map.

m_convKeyUp - Variable in class

com.oracle.common.collections.ConverterCollections.ConverterEntry

The Converter used to view the Entry's key.

m_convKeyUp - Variable in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet

5 The Converter used to view keys stored in the Entry Set.

m_convKeyUp - Variable in class

com.oracle.common.collections.ConverterCollections.ConverterMap

The Converter used to view keys stored in the Map.

m_convUp - Variable in class

10 com.oracle.common.collections.ConverterCollections.ConverterCollection

The Converter from the underlying Collection to this Collection.

m_convUp - Variable in class

com.oracle.common.collections.ConverterCollections.ConverterListIterator

The Converter from the underlying ListIterator to this ListIterator.

15 m_convValDown - Variable in class

com.oracle.common.collections.ConverterCollections.ConverterEntry

The Converter used to store the Entry's value.

m_convValDown - Variable in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet

20 The Converter used to pass values down to the Entry Set.

m_convValDown - Variable in class

com.oracle.common.collections.ConverterCollections.ConverterMap

The Converter used to pass keys down to the Map.

m_convValUp - Variable in class

25 com.oracle.common.collections.ConverterCollections.ConverterEntry

The Converter used to view the Entry's value.

m_convValUp - Variable in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet

The Converter used to view values stored in the Entry Set.

30 m_convValUp - Variable in class

com.oracle.common.collections.ConverterCollections.ConverterMap

The Converter used to view values stored in the Map.

m_cPendingResponses - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.Transmitter

35 The number of pending responses.

m_cReceiptsIn - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

The total number of returned receipts.

m_cReceiptsNanos - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

5 The total RTT time for all received receipts.

m_cReceiptsReturn - Variable in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

The number of receipts to return to the peer on our next send.

m_cReceiptsUnflushed - Variable in class

10 com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

The number of receipts associated with the unflushed WriteBatch.

m_cReceiptTimings - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

The total number of received timed receipts.

15 m_cReconnectDelayMillis - Variable in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Reconnect interval for the Connection in millis

m_cRefs - Variable in class com.oracle.common.internal.net.socketbus.SharedBuffer

The reference count.

20 m_cResponseIn - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

The total number of received responses.

m_cResponseNanos - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

25 The total RTT time for all received responses.

m_cThreadsDirect - Variable in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

The maximum number of concurrent writers on which to attempt direct writes.

m_ctx - Variable in class com.oracle.common.net.SSLSocketProvider.DefaultDependencies

30 The SSLContext used by this SocketProvider.

m_cWriters - Variable in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection.WriteBatch

An estimate of the number of threads which contributed to the batch.

35 m_cWritersWaiting - Variable in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection

The number of threads waiting to send.

m_delegate - Variable in class com.oracle.common.internal.io.CheckedBufferManager

The wrapped BufferManager.

m_delegate - Variable in class

5 com.oracle.common.internal.net.DemultiplexedSocketProvider

Underlying MultiplexedSocketProvider

m_delegate - Variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelectorProvider

The delegate SelectorProvider.

10 m_delegate - Variable in class com.oracle.common.internal.net.ssl.SSLSelectorProvider

The delegate SelectorProvider.

m_delegate - Variable in class com.oracle.common.internal.net WrapperSelector

The wrapped Selector.

m_delegate - Variable in class

15 com.oracle.common.internal.net WrapperSelector WrapperSelectionKey

The delegate SelectionKey.

m_delegate - Variable in class com.oracle.common.internal.net WrapperServerSocket

The delegate socket.

m_delegate - Variable in class

20 com.oracle.common.internal.net WrapperServerSocketChannel

The delegate channel.

m_delegate - Variable in class com.oracle.common.internal.net WrapperSocket

The delegate socket.

m_delegate - Variable in class com.oracle.common.internal.net WrapperSocketChannel

25 The delegate SocketChannel.

m_delegate - Variable in class

com.oracle.common.net.SSLSocketProvider.DefaultDependencies

The SocketProvider which produces the underlying clear-text sockets.

m_dependencies - Variable in class

30 com.oracle.common.internal.net.MultiplexedSocketProvider

The provider's dependencies.

m_dependencies - Variable in class

com.oracle.common.internal.net.socketbus.SocketBusDriver

The driver's dependencies.

35 m_dependencies - Variable in class com.oracle.common.net.exabus.util.SimpleDepot

The Depot's Dependencies.

m_dependencies - Variable in class com.oracle.common.net.SSLSocketProvider

The SSLSocketProvider's dependencies.

m_depot - Variable in class com.oracle.common.internal.net.socketbus.SocketBusDriver

The Depot managing this driver.

5 m_depot - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EchoBus.EchoDriver

m_disposer - Variable in class com.oracle.common.internal.net.socketbus.SharedBuffer

The associated Disposer

m_disposer - Variable in class

10 com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadBatch

Disposer for shared buffers

m_driver - Variable in class com.oracle.common.internal.net.socketbus.AbstractSocketBus

The SocketDriver which produced this bus.

15 m_engine - Variable in class com.oracle.common.internal.net.ssl.SSLSocketChannel

The SSLEngine which provides SSL to this channel.

m_entry - Variable in class

com.oracle.common.collections.ConverterCollections.AbstractConverterEntry

The underlying entry.

20 m_evt - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.StampedEvent

m_executor - Variable in class

com.oracle.common.net.SSLSocketProvider.DefaultDependencies

The SSL executor, or null for default.

25 m_factory - Variable in class com.oracle.common.internal.net.MultiProviderSelectionService

The factory to use when creating new SelectionServices.

m_factory - Variable in class com.oracle.common.internal.net.ResumableSelectionService

The ThreadFactory to use for producing the threads to run the service.

m_fBacklog - Variable in class

30 com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

True if in the backlog state, false otherwise.

m_fBacklogLocal - Variable in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection

True if we are locally backlogged.

35 m_fBlock - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.Transmitter

True if the transmitter should block while awaiting a response.

m_fBlocking - Variable in class

com.oracle.common.internal.net.ssl.SSLServerSocketChannel

A cached copy of the configured blocking mode.

5 m_fBlocking - Variable in class com.oracle.common.internal.net.ssl.SSLSocketChannel

A cached copy of the configured blocking mode.

m_fClientAuthRequired - Variable in class

com.oracle.common.net.SSLSocketProvider.DefaultDependencies

True if client authentication is required.

10 m_fClosed - Variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedServerSocketChannel

Flag indicating if the channel is closed.

m_fFlush - Variable in class

15 com.oracle.common.net.exabus.util.MessageBusTest.DemultiplexingCollector

True if the collector requires a bus.flush to be performed.

m_fHandshaking - Variable in class com.oracle.common.internal.net.ssl.SSLSocketChannel

Flag indicating if the channel is currently handshaking.

m_fHeader - Variable in class

20 com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadBatch

True if waiting for a message header, false if waiting for a message.

m_fSafe - Variable in class com.oracle.common.io.SingleBufferSequence

Indicates if the original buffer can be returned without duplication.

25 m_hasher - Variable in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

The SocketAddress hasher.

m_headerIn - Variable in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.HandshakeHandler

30 The in-bound protocol header.

m_headerOut - Variable in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.HandshakeHandler

The out-bound protocol header.

m_hostnameVerifier - Variable in class

35 com.oracle.common.net.SSLSocketProvider.DefaultDependencies

The HostnameVerifier used by this SocketProvider.

m_iter - Variable in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet.ConverterIterator

The underlying Iterator.

m_iter - Variable in class

5 com.oracle.common.collections.ConverterCollections.ConverterEnumerator

Iterator of Objects to convert.

m_iter - Variable in class

com.oracle.common.collections.ConverterCollections.ConverterListIterator

The underlying ListIterator.

10 m_keyFirst - Variable in class com.oracle.common.internal.net.ssl.SSLSocketChannel

A linked list of registered SSLSelectionKeys, the linked list must be accessed while holding the read lock, i.e m_aBuffSingleInbound

m_keyHead - Variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedServerSocketChannel

15 I

The head of the SelectionKey linked-list.

m_keyNext - Variable in class

com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey

A link to the next SSLSelectionKey registered against the associated channel.

20 m_keyStore - Variable in class com.oracle.common.internal.security.PeerX509TrustManager

The key store used by this TrustManager.

m_ldtBacklogLocalStart - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

The time at which the current local backlog condition started, or zero if there is none.

25 m_ldtBacklogStart - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.Transmitter

The start time of the current backlog, or 0 if none is active

m_ldtNanos - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.StampedEvent

30 m_listBuffers - Variable in class com.oracle.common.io.BufferSequenceOutputStream

The list of flushed buffers.

m_logger - Variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider.DefaultDependencies

The Logger.

35 m_logger - Variable in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

The Logger.

m_logger - Variable in class

com.oracle.common.net.exabus.util.SimpleDepot.DefaultDependencies

The Logger.

5 m_logger - Variable in class

com.oracle.common.net.SSLSocketProvider.DefaultDependencies

The Logger to use.

m_IWritersBitSet - Variable in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection.WriteBat

10 ch

Bit set used to identify threads contributing to the batch

m_manager - Variable in class com.oracle.common.io.BufferSequenceOutputStream

The BufferManager to use in producing the sequence, or null if closed.

m_manager - Variable in class com.oracle.common.io.MultiBufferSequence

15 The BufferManager

m_manager - Variable in class com.oracle.common.io.SingleBufferSequence

The BufferManager

m_map - Variable in class

com.oracle.common.collections.ConverterCollections.ConverterMap

20 The underlying Map.

m_mapBindings - Variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider.Listener

Map of port to servers.

m_mapDriver - Variable in class

25 com.oracle.common.net.exabus.util.SimpleDepot.DefaultDependencies

The Drivers to use.

m_mapListener - Variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider

Map of Listener addresses to their corresponding Listener object

30 m_mapOptions - Variable in class com.oracle.common.net.SocketSettings

A map of the specified options.

m_mapServices - Variable in class

com.oracle.common.internal.net.MultiProviderSelectionService

Map of SelectorProvider to SelectionService.

35 m_nBacklog - Variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider.DefaultDependencies

The backlog.

m_nFlushOn - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

The number of messages to send before flushing.

5 m_nFlushOn - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.Transmitter

The number of messages to send before flushing.

m_nId - Variable in class com.oracle.common.net.exabus.util.MessageBusTest.Transmitter

The transmitter ID.

10 m_nLimit - Variable in class com.oracle.common.io.SingleBufferSequence

The buffer's original limit.

m_nOpsInterestApp - Variable in class

com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey

The interest set as specified by the application

15 m_nOpsInterestData - Variable in class

com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey

The interest set as specified by the SSL data layer.

m_nOpsInterestExclude - Variable in class

com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey

20 The interest operations to exclude.

m_nOpsInterestProtocol - Variable in class

com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey

The operations which are ready in the SSL protocol layer.

m_nOpsReadyData - Variable in class

25 com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey

The operations which are ready in the SSL data layer.

m_nOpsReadyProtocol - Variable in class

com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey

The interest set as specified by the SSL protocol layer.

30 m_nPortEphemeralHi - Variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider

The maximum base ephemeral port number which has at some point been allocated.

m_nPortEphemeralLow - Variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider

35 The minimum base ephemeral port number which has at some point been allocated.

m_nPosition - Variable in class com.oracle.common.io.SingleBufferSequence

The buffer's original position.

m_nSubport - Variable in class

com.oracle.common.internal.net.DemultiplexedSocketProvider

Subport to be used by this DemultiplexedSocketProvider

5 m_of - Variable in class com.oracle.common.io.BufferSequenceInputStream

The offset of the next ByteBuffer to read from.

m_ofBuffer - Variable in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection.WriteBatch

10 The current offset into m_aBuffer.

m_ofBuffer - Variable in class com.oracle.common.io.MultiBufferSequence

The offset of the first buffer.

m_ofBufferRecycle - Variable in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection.WriteBatch

15 The current offset into m_aBufferRecycle.

m_ofMark - Variable in class com.oracle.common.io.BufferSequenceInputStream

The offset of the buffer associated with the mark.

m_ofReadable - Variable in class

20 com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadBatch

The array offset of the first readable buffer.

m_ofSafe - Variable in class com.oracle.common.io.MultiBufferSequence

25 The relative offset of the first buffer in m_aBuffer which is safe to return without duplicating.

m_ofWritable - Variable in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadBatch

The offset of the first buffer to read into (i.e.

30 m_oKeyUp - Variable in class

com.oracle.common.collections.ConverterCollections.AbstractConverterEntry

Cached converted key.

m_options - Variable in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

35 The SocketOptions.

m_oValueUp - Variable in class

com.oracle.common.collections.ConverterCollections.AbstractConverterEntry

Cached converted value.

m_phase - Variable in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.HandshakeHandler

5 The handshake state.

m_pointSelf - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EchoBus

m_posMark - Variable in class com.oracle.common.io.BufferSequenceInputStream

The buffer position of the buffer associated with the mark.

10 m_provider - Variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider.DefaultDependencies

The SocketProvider to utilize.

m_provider - Variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedServerSocketChannel

15 I

MultiplexedSocketProvider associated with this ServerSocketChannel

m_provider - Variable in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

The SocketProvider to use when producing sockets.

20 m_provider - Variable in class com.oracle.common.internal.net.ssl.SSLServerSocket

The SSLSocketProvider that created this SSLSocket.

m_provider - Variable in class com.oracle.common.internal.net.ssl.SSLSocket

The SSLSocketProvider that created this SSLSocket.

m_providerSocket - Variable in class

25 com.oracle.common.internal.net.ssl.SSLServerSocketChannel

The SSLSocketProvider associated with this socket.

m_providerSocket - Variable in class com.oracle.common.internal.net.ssl.SSLSocketChannel

The SSLSocketProvider associated with this socket.

m_queue - Variable in class

30 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedServerSocketChannel

I

The queue of ready client channels.

m_queue - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

35 The event queue, or null for reentrant processing.

m_queueWrite - Variable in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

Queue of WriteBatches which will be written by the service thread.

m_readBatch - Variable in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection

5 The read buffer data.

m_refBufferRecycledInbound - Variable in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadBatch

ByteBuffer recyclable by ReadBatch w/o releasing it to BufferManager

10 m_sDefaultMemBusEndPoint - Variable in class

com.oracle.common.net.exabus.util.SimpleDepot.DefaultDependencies

The default MemoryBus EndPoint name.

m_sDefaultMsgBusEndPoint - Variable in class

com.oracle.common.net.exabus.util.SimpleDepot.DefaultDependencies

15 The default MessageBus EndPoint name.

m_selector - Variable in class

com.oracle.common.internal.net WrapperSelector WrapperSelectionKey

The associated WrapperSelector.

m_service - Variable in class

20 com.oracle.common.internal.net.MultiplexedSocketProvider.DefaultDependencies

The SelectionService to utilize.

m_service - Variable in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

The SelectionService the busses will use for IO processing.

25 m_set - Variable in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet

The underlying Entry Set (or Collection of Map Entry objects).

m_set - Variable in class

com.oracle.common.collections.ConverterCollections.ConverterMap

30 The Entry Set.

m_setAllocated - Variable in class com.oracle.common.internal.io.CheckedBufferManager

The set of buffers which this manager has handed out but which have yet to be returned.

m_setCancelled - Variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelector

35 The cancelled key set.

m_setEphemeral - Variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider.Listener

The Set of allocated sub-ports in the ephemeral range.

m_setKeys - Variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelector

5 The registered key set.

m_setKeys - Variable in class com.oracle.common.internal.net WrapperSelector

The selector's keys

m_setKeysRO - Variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelector

10 The exposed registered key set.

m_setPeer - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

Set of peer's to transmit to.

m_setPending - Variable in class

15 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelector

The pending ready key set.

m_setReady - Variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelector

The ready key set.

20 m_setReady - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

Subset of m_setPeer that ready to be transmitted to, i.e.

m_setReady - Variable in class

com.oracle.common.net.exabus.util.MessageBusTest.Transmitter

25 The EndPoints to send to.

m_setSelectedKeys - Variable in class com.oracle.common.internal.net WrapperSelector

The selector's selected keys

m_sNamePrefix - Variable in class com.oracle.common.util.DaemonThreadFactory

The prefix to use for un-named threads produced by the factory.

30 m_socket - Variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedServerSocketChannel

I

The ServerSocket representation of this channel.

m_socket - Variable in class com.oracle.common.internal.net WrapperServerSocketChannel

35 The associated ServerSocket.

m_socket - Variable in class com.oracle.common.internal.net WrapperSocketChannel

The associated WrapperSocket.

m_sProtocolMemoryBus - Variable in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

The message bus protocol prefix.

5 m_sProtocolMessageBus - Variable in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

The message bus protocol prefix.

m_src - Variable in class

com.oracle.common.internal.net.socketbus.MultiBufferMessageEvent

10 The MessageConnection associated with the event.

m_src - Variable in class

com.oracle.common.internal.net.socketbus.SingleBufferMessageEvent

The MessageConnection associated with the event.

m_thread - Variable in class com.oracle.common.internal.net.ResumableSelectionService

15 The thread running the service.

m_value - Variable in class com.oracle.common.base.SimpleHolder

The held value.

m_value - Variable in class com.oracle.common.base.VolatileHolder

The held value.

20 m_writeBatchFirst - Variable in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

The next writeBatch to be processed by the SelectionService thread.

m_writeBatchUnflushed - Variable in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

25 The current unflushed WriteBatch, or null.

main(String[]) - Static method in class com.oracle.common.net.exabus.util.MessageBusTest

Run the MessageBusTest application.

makeConnection(UrlEndPoint) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus

30 Factory pattern method for instantiating Connection objects.

makeConnection(UrlEndPoint) - Method in class

com.oracle.common.internal.net.socketbus.SocketMessageBus

Factory pattern method for instantiating Connection objects.

makeExceptionRecord(Level, Throwable, String, Object...) - Method in class

35 com.oracle.common.internal.net.socketbus.AbstractSocketBus

Construct a log record with an exception.

makeKey(Selector) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedServerSocketChannel

Register this channel with specified selector.

5 makeRecord(Level, String, Object...) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus

Construct a log record.

mark(int) - Method in class com.oracle.common.io.BufferSequenceInputStream

mark(int) - Method in interface com.oracle.common.io.InputStreaming

10 Marks the current read position in the InputStream in order to support the stream to be later "rewound" (using the InputStreaming.reset() method) to the current position.

markKeysReadable(boolean) - Method in class

com.oracle.common.internal.net.ssl.SSLSocketChannel

Prepare the registered keys for selection.

15 markSupported() - Method in class com.oracle.common.io.BufferSequenceInputStream

markSupported() - Method in interface com.oracle.common.io.InputStreaming

Determine if this InputStream supports the InputStreaming.mark(int) and InputStreaming.reset() methods.

MemoryBus - Interface in com.oracle.common.net.exabus

20 A MemoryBus provides access to regions of remotely accessible memory.

MemorySize - Class in com.oracle.common.io

A MemorySize represents an amount of memory, with byte accuracy.

MemorySize(long) - Constructor for class com.oracle.common.io.MemorySize

Construct a MemorySize give a specified number of bytes.

25 MemorySize(MemorySize) - Constructor for class com.oracle.common.io.MemorySize

Constructs a MemorySize based on another MemorySize.

MemorySize(String) - Constructor for class com.oracle.common.io.MemorySize

Construct a MemorySize by parsing the specified String.

MemorySize(double, MemorySize.Magnitude) - Constructor for class

30 com.oracle.common.io.MemorySize

Construct a MemorySize given a specified amount of a MemorySize.Magnitude.

MemorySize(int, MemorySize.Magnitude) - Constructor for class

com.oracle.common.io.MemorySize

Construct a MemorySize given a specified amount of a MemorySize.Magnitude.

35 MemorySize(String, MemorySize.Magnitude) - Constructor for class

com.oracle.common.io.MemorySize

Construct a MemorySize by parsing the specified String.

MemorySize.Magnitude - Enum in com.oracle.common.io

The MemorySize.Magnitude of the MemorySize.

MessageBus - Interface in com.oracle.common.net.exabus

5 A MessageBus is a Bus that provides a message-passing communication model.

MessageBusTest - Class in com.oracle.common.net.exabus.util

MessageBusTest is an application for testing the performance characteristics of MessageBus implementations and the network on which they operate.

MessageBusTest() - Constructor for class

10 com.oracle.common.net.exabus.util.MessageBusTest

MessageBusTest.DemultiplexingCollector - Class in com.oracle.common.net.exabus.util

MessageBusTest.DemultiplexingCollector(Bus, MessageBusTest.EventProcessor[]) - Constructor for class

com.oracle.common.net.exabus.util.MessageBusTest.DemultiplexingCollector

15 Construct a DemultiplexingCollector which dispatches to the specified queues.

MessageBusTest.EchoBus - Class in com.oracle.common.net.exabus.util

EchoBus is a simple MessageBus implementation which echos all messages back to itself.

MessageBusTest.EchoBus(EndPoint) - Constructor for class

20 com.oracle.common.net.exabus.util.MessageBusTest.EchoBus

MessageBusTest.EchoBus.EchoDriver - Class in com.oracle.common.net.exabus.util

MessageBusTest.EchoBus.EchoDriver() - Constructor for class

com.oracle.common.net.exabus.util.MessageBusTest.EchoBus.EchoDriver

MessageBusTest.EventProcessor - Class in com.oracle.common.net.exabus.util

25 EventProcessor is the basis for a thread which will handle bus event streams.

MessageBusTest.EventProcessor(MessageBus, Set<EndPoint>, Set<EndPoint>,

MessageBusTest.Transmitter[], long, int) - Constructor for class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

Construct an EventProcessor.

30 MessageBusTest.Receipt - Class in com.oracle.common.net.exabus.util

Receipt object used in the test.

MessageBusTest.Receipt(long, Disposable) - Constructor for class

com.oracle.common.net.exabus.util.MessageBusTest.Receipt

MessageBusTest.SkipStream - Class in com.oracle.common.net.exabus.util

35 SkipStream in an OutputStream with the ability to skip a number of bytes.

MessageBusTest.SkipStream(BufferManager, int) - Constructor for class

com.oracle.common.net.exabus.util.MessageBusTest.SkipStream

Construct a SkipStream

MessageBusTest.StampedEvent - Class in com.oracle.common.net.exabus.util

StampedEvent adds a nano-resolution timestamp to events at the time of construction.

5 MessageBusTest.StampedEvent(Event) - Constructor for class

com.oracle.common.net.exabus.util.MessageBusTest.StampedEvent

MessageBusTest.Transmitter - Class in com.oracle.common.net.exabus.util

A Transmitter is responsible for sending messages on a bus to a series of peers.

MessageBusTest.Transmitter(MessageBus, int, Set<EndPoint>, int, boolean) - Constructor

10 for class com.oracle.common.net.exabus.util.MessageBusTest.Transmitter

Construct a Transmitter.

METHOD_OPEN_CLIENT - Static variable in class

com.oracle.common.net.SdpSocketProvider

The method for opening SDP Socket.

15 METHOD_OPEN_CLIENT_CHANNEL - Static variable in class

com.oracle.common.net.SdpSocketProvider

The method for opening SDP SocketChannels.

METHOD_OPEN_SERVER - Static variable in class

com.oracle.common.net.SdpSocketProvider

20 The method for opening SDP ServerSocket.

METHOD_OPEN_SERVER_CHANNEL - Static variable in class

com.oracle.common.net.SdpSocketProvider

The method for opening SDP ServerSocketChannels.

MSG_HEADER_SIZE - Static variable in class

25 com.oracle.common.internal.net.socketbus.SocketMessageBus

The size of the message header.

MSG_HEADER_SIZE - Static variable in class

com.oracle.common.net.exabus.util.MessageBusTest

The message header size used in the test.

30 MSG_RECEIPT - Static variable in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus

Internal message type for exchanging receipts.

MSG_RECEIPT_SIZE - Static variable in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus

35 Receipt message size

MSG_SIGNAL - Static variable in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus

Internal message type indicating that a signal event should be raised.

MultiBufferMessageEvent - Class in com.oracle.common.internal.net.socketbus

MultiBufferMessageEvent is an implementation of a Bus Event for Messages over a series
5 of Buffers where the first and last buffer in the series come from SharedBuffers.

MultiBufferMessageEvent(SocketMessageBus.MessageConnection, BufferManager,
ByteBuffer[], int, int, long, SharedBuffer, SharedBuffer) - Constructor for class

com.oracle.common.internal.net.socketbus.MultiBufferMessageEvent

Construct a MultiBufferMessageEvent.

10 MultiBufferSequence - Class in com.oracle.common.io

MultiBufferSequence is a thread-safe BufferSequence implementation based on an array
of ByteBuffers.

MultiBufferSequence(BufferManager, ByteBuffer[]) - Constructor for class

com.oracle.common.io.MultiBufferSequence

15 Construct a MultiBufferSequence from an array of ByteBuffers.

MultiBufferSequence(BufferManager, ByteBuffer[], int, int) - Constructor for class

com.oracle.common.io.MultiBufferSequence

Construct a MultiBufferSequence from an array of ByteBuffers.

MultiBufferSequence(BufferManager, ByteBuffer[], int, int, long) - Constructor for class

20 com.oracle.common.io.MultiBufferSequence

Construct a MultiBufferSequence from an array of ByteBuffers.

MULTIPLEXED - Static variable in class com.oracle.common.net.SdpSocketProvider

A default Multiplexed SdpSocketProvider.

MULTIPLEXED - Static variable in class com.oracle.common.net.TcpSocketProvider

25 A default Multiplexed TcpSocketProvider.

MultiplexedSocketProvider - Class in com.oracle.common.internal.net

MultiplexedSocketProvider produces a family of sockets which utilize extended port values
to allow for multiplexing of sockets.

MultiplexedSocketProvider(MultiplexedSocketProvider.Dependencies) - Constructor for class

30 com.oracle.common.internal.net.MultiplexedSocketProvider

Construct a MultiplexedSocketProvider.

MultiplexedSocketProvider.DefaultDependencies - Class in com.oracle.common.internal.net

DefaultDependencies provides a default implementation of the Dependencies interface.

MultiplexedSocketProvider.DefaultDependencies() - Constructor for class

35 com.oracle.common.internal.net.MultiplexedSocketProvider.DefaultDependencies

Produce a DefaultDependencies object initialized with all defaults.

MultiplexedSocketProvider.DefaultDependencies(MultiplexedSocketProvider.Dependencies)

- Constructor for class

com.oracle.common.internal.net.MultiplexedSocketProvider.DefaultDependencies

Produce a copy based on the supplied Dependencies.

- 5 MultiplexedSocketProvider.Dependencies - Interface in com.oracle.common.internal.net
Dependencies describes the MultiplexedSocketProvider's dependencies.

MultiplexedSocketProvider.ListenChannel - Class in com.oracle.common.internal.net

Helper wrapper for the real ServerSocketChannel to allow it to be managed by the multiplexed SelectionService.

- 10 MultiplexedSocketProvider.ListenChannel(ServerSocketChannel) - Constructor for class
com.oracle.common.internal.net.MultiplexedSocketProvider.ListenChannel

MultiplexedSocketProvider.Listener - Class in com.oracle.common.internal.net

Listener is a SelectionHandler which waits on the real ServerSocketChannel for new connections.

- 15 MultiplexedSocketProvider.Listener(ServerSocketChannel) - Constructor for class
com.oracle.common.internal.net.MultiplexedSocketProvider.Listener

MultiplexedSocketProvider.Listener.Switcher - Class in com.oracle.common.internal.net

Switcher handles the initial protocol header from new connections.

MultiplexedSocketProvider.Listener.Switcher(SocketChannel) - Constructor for class

- 20 com.oracle.common.internal.net.MultiplexedSocketProvider.Listener.Switcher

MultiplexedSocketProvider.MultiplexedChannel - Interface in

com.oracle.common.internal.net

Common interface implemented by all channels serviced by this provider.

MultiplexedSocketProvider.MultiplexedSelector - Class in com.oracle.common.internal.net

- 25 MultiplexedSelector is a Selector implementation for use with Sockets produced by this
provider.

MultiplexedSocketProvider.MultiplexedSelector(Selector, SelectorProvider) - Constructor for
class com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelector

Construct a MultiplexedSelector.

- 30 MultiplexedSocketProvider.MultiplexedSelectorProvider - Class in
com.oracle.common.internal.net

MultiplexedSelectorProvider provides a SelectorProvider interface to this SocketProvider.

MultiplexedSocketProvider.MultiplexedSelectorProvider(SelectorProvider) - Constructor for
class

- 35 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelectorProvider

MultiplexedSocketProvider.MultiplexedSelectorProvider(SocketProvider) - Constructor for

class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelectorProvider

MultiplexedSocketProvider.MultiplexedServerSocketChannel - Class in

com.oracle.common.internal.net

- 5 MultiplexedServerSocketChannel is an implementation of a ServerSocketChannel which shares an underlying ServerSocketChannel with a number of other MultiplexedServerSocketChannels.

MultiplexedSocketProvider.MultiplexedServerSocketChannel(MultiplexedSocketProvider) - Constructor for class

- 10 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedServerSocketChannel

MultiplexedSocketProvider.MultiplexedSocket - Class in com.oracle.common.internal.net

MultiplexedSocket is an implementation of a Socket that works with multiplexed socket addresses represented by InetSocketAddress32.

- 15 MultiplexedSocketProvider.MultiplexedSocket(Socket, MultiplexedSocketProvider.MultiplexedSocketChannel) - Constructor for class com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocket

Construct a MultiplexedSocket

MultiplexedSocketProvider.MultiplexedSocketChannel - Class in

- 20 com.oracle.common.internal.net

MultiplexedSocketChannel

MultiplexedSocketProvider.MultiplexedSocketChannel(SocketChannel, SocketAddress, ByteBuffer) - Constructor for class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel

- 25 Create a MultiplexedSocketChannel for an incoming SocketChannel
MultiplexedSocketProvider.MultiplexedSocketChannel.SocketSelectionKey - Class in com.oracle.common.internal.net

SelectionKey which is aware of the state of the channel's inbound buffer.

MultiplexedSocketProvider.MultiplexedSocketChannel.SocketSelectionKey(WrapperSelector

- 30 , SelectionKey, Object) - Constructor for class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel.SocketSelectionKey

MultiplexedSocketProvider.WellKnownSubPorts - Enum in com.oracle.common.internal.net

WellKnownSubports are sub-ports that are reserved for use by components.

- 35 MultiProviderSelectionService - Class in com.oracle.common.internal.net

The MultiProviderSelectionService supports registration of channels from multiple

SelectorProviders.

MultiProviderSelectionService(Factory<? extends SelectionService>) - Constructor for class com.oracle.common.internal.net.MultiProviderSelectionService

Construct a MultiProviderSelectionService.

5

NAME - Static variable in class com.oracle.common.internal.security.SecurityProvider

The name of this provider.

NaturalAssociator - Class in com.oracle.common.base

10 NaturalAssociator provides an Associator implementation for objects that implement the Associated interface.

NaturalAssociator() - Constructor for class com.oracle.common.base.NaturalAssociator

NaturalHasher<V> - Class in com.oracle.common.base

15 NaturalHasher provides a Hasher implementation based upon an object's internal hashCode and equals implementation.

NaturalHasher() - Constructor for class com.oracle.common.base.NaturalHasher

newThread(Runnable) - Method in class com.oracle.common.util.DaemonThreadFactory

next() - Method in class com.oracle.common.collections.AbstractStableIterator

next() - Method in class com.oracle.common.collections.ChainedIterator

20 next() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet.ConverterIterator

next() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEnumerator

Returns the next element of this Iterator.

25 next() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterListIterator

next() - Method in enum com.oracle.common.io.Bandwidth.Magnitude

Obtain the next order of Bandwidth.Magnitude (above this one).

next() - Method in enum com.oracle.common.io.MemorySize.Magnitude

30 Obtain the next order of MemorySize.Magnitude (above this one).

next() - Method in enum com.oracle.common.util.Duration.Magnitude

Obtain the next order of Duration.Magnitude (above this one).

nextElement() - Method in class com.oracle.common.collections.AbstractStableIterator

nextElement() - Method in class

35 com.oracle.common.collections.ConverterCollections.ConverterEnumerator

Get the next element in the enumeration.

nextIndex() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterListIterator

5 onAbandon() - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.HandshakeHandler

Handle extra data supplied to an abandoned connection.

onAccept() - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.HandshakeHandler

10 Evaluate the "accept" byte.

onClose() - Method in class com.oracle.common.internal.net.socketbus.AbstractSocketBus

Called as part of the closing the bus.

onControlMessage(Event, Event) - Method in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadB

15 atch

Handle a control event.

onEndOfStream() - Method in class com.oracle.common.internal.net.ssl.SSLSocketChannel

Called to indicate that the inbound stream will emit no further data.

onEvent(Event) - Method in class

20 com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

Process an event

onException(Throwable) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.Listener

onException(Throwable) - Method in class

25 com.oracle.common.internal.net.socketbus.AbstractSocketBus.AcceptHandler

Called in the event that SafeSelectionHandler.onReadySafe(int) resulted in an exception.

onException(Throwable) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

Called in the event that AbstractSocketBus.Connection.onReadySafe(int) resulted in an

30 exception.

onException(Throwable) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.HandshakeHandler

Called in the event that SafeSelectionHandler.onReadySafe(int) resulted in an exception.

onException(Throwable) - Method in class com.oracle.common.net.SafeSelectionHandler

35 Called in the event that SafeSelectionHandler.onReadySafe(int) resulted in an exception.

onIdentify() - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.HandshakeHandler

Evaluate the peer's protocol identification.

onIntroduce() - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.HandshakeHandler

5 Evaluate the introduction.

onLastEvent(Event) - Method in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadB
atch

onLastEvent is called when the last event is is ready to be emitted (see onReady).

10 onMessage(Event) - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

Handle an inbound message.

onMessageDispose(BufferSequence) - Method in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection

15 Called as part of disposing a MessageEvent.

onOpen() - Method in class com.oracle.common.internal.net.socketbus.AbstractSocketBus

Called once a bus has been opened.

onOpen() - Method in class com.oracle.common.internal.net.socketbus.BufferedSocketBus

Called once a bus has been opened.

20 onReady(int) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

Called when the channel has been selected.

onReady() - Method in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadB
atch

25 Process the next message(s) from the already read data.

onReady(int) - Method in class com.oracle.common.net.SafeSelectionHandler

Called when the channel has been selected.

onReady(int) - Method in interface com.oracle.common.net.SelectionService.Handler

30 Called when the channel has been selected.

onReadySafe(int) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.Listener

onReadySafe(int) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.Listener.Switcher

35 onReadySafe(int) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.AcceptHandler

Called when the channel has been selected.

onReadySafe(int) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

Called when the channel has been selected.

5 onReadySafe(int) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.HandshakeHandler

Called when the channel has been selected.

onReadySafe(int) - Method in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

10 Called when the channel has been selected.

onReadySafe(int) - Method in class com.oracle.common.net.SafeSelectionHandler

Called when the channel has been selected.

onReleased() - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

15 Called once a connection has been released.

onReleased() - Method in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

Called once a connection has been released.

onReleased() - Method in class

20 com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection

Called once a connection has been released.

onSocketConnectException(IOException) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

Called when a socket connect fails do to a SocketException.

25 OP_ACCEPT - Static variable in interface com.oracle.common.net.SelectionService.Handler

Operation-set bit for socket-accept operations.

OP_CONNECT - Static variable in interface

com.oracle.common.net.SelectionService.Handler

Operation-set bit for socket-connect operations.

30 OP_EAGER - Static variable in interface com.oracle.common.net.SelectionService.Handler

Operation-set bit indicating that it is likely that at least one of the other bits in the set are likely to be satisfied soon.

OP_READ - Static variable in interface com.oracle.common.net.SelectionService.Handler

Operation-set bit for read operations.

35 OP_WRITE - Static variable in interface com.oracle.common.net.SelectionService.Handler

Operation-set bit for write operations.

open(InetSocketAddress32, MultiplexedSocketProvider.MultiplexedServerSocketChannel) -
Method in class com.oracle.common.internal.net.MultiplexedSocketProvider

Start listening for connections on the specified address.

open() - Method in class com.oracle.common.internal.net.socketbus.AbstractSocketBus

5 Open the bus, allowing it to begin exchanging data.

open() - Static method in class com.oracle.common.internal.net.WrapperSelector

Unsupported.

open() - Static method in class

com.oracle.common.internal.net.WrapperServerSocketChannel

10 Unsupported.

open() - Static method in class com.oracle.common.internal.net.WrapperSocketChannel

Unsupported.

open() - Method in interface com.oracle.common.net.exabus.Bus

Open the bus, allowing it to begin exchanging data.

15 open() - Method in class com.oracle.common.net.exabus.util.MessageBusTest.EchoBus

openDatagramChannel() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelectorProvider

openDatagramChannel() - Method in class

com.oracle.common.internal.net.ssl.SSLSelectorProvider

20 openPipe() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelectorProvider

openPipe() - Method in class com.oracle.common.internal.net.ssl.SSLSelectorProvider

openSelector() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelectorProvider

25 openSelector() - Method in class com.oracle.common.internal.net.ssl.SSLSelectorProvider

openServerSocket() - Method in class

com.oracle.common.internal.net.DemultiplexedSocketProvider

Create an ServerSocket.

openServerSocket() - Method in class

30 com.oracle.common.internal.net.MultiplexedSocketProvider

Create an ServerSocket.

openServerSocket() - Method in class com.oracle.common.net.SdpSocketProvider

openServerSocket() - Method in interface com.oracle.common.net.SocketProvider

Create an ServerSocket.

35 openServerSocket() - Method in class com.oracle.common.net.SSLSocketProvider

Create an ServerSocket.

openServerSocket() - Method in class com.oracle.common.net.TcpSocketProvider

openServerSocketChannel() - Method in class

com.oracle.common.internal.net.DemultiplexedSocketProvider

Create an ServerSocketChannel.

5 openServerSocketChannel() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelectorProvider

openServerSocketChannel() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider

Create an ServerSocketChannel.

10 openServerSocketChannel() - Method in class

com.oracle.common.internal.net.ssl.SSLSelectorProvider

openServerSocketChannel() - Method in class com.oracle.common.net.SdpSocketProvider

openServerSocketChannel() - Method in interface com.oracle.common.net.SocketProvider

Create an ServerSocketChannel.

15 openServerSocketChannel() - Method in class com.oracle.common.net.SSLSocketProvider

Create an ServerSocketChannel.

openServerSocketChannel() - Method in class com.oracle.common.net.TcpSocketProvider

openSocket() - Method in class

com.oracle.common.internal.net.DemultiplexedSocketProvider

20 Create a Socket.

openSocket() - Method in class com.oracle.common.internal.net.MultiplexedSocketProvider

Create a Socket.

openSocket() - Method in class com.oracle.common.net.SdpSocketProvider

openSocket() - Method in interface com.oracle.common.net.SocketProvider

25 Create a Socket.

openSocket() - Method in class com.oracle.common.net.SSLSocketProvider

Create a Socket.

openSocket() - Method in class com.oracle.common.net.TcpSocketProvider

openSocketChannel() - Method in class

30 com.oracle.common.internal.net.DemultiplexedSocketProvider

Create a SocketChannel.

openSocketChannel() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelectorProvider

openSocketChannel() - Method in class

35 com.oracle.common.internal.net.MultiplexedSocketProvider

Create a SocketChannel.

openSocketChannel() - Method in class

com.oracle.common.internal.net.ssl.SSLSelectorProvider

openSocketChannel() - Method in class com.oracle.common.net.SdpSocketProvider

openSocketChannel() - Method in interface com.oracle.common.net.SocketProvider

5 Create a SocketChanel.

openSocketChannel() - Method in class com.oracle.common.net.SSLSocketProvider

 Create a SocketChanel.

openSocketChannel() - Method in class com.oracle.common.net.TcpSocketProvider

openSSLEngine() - Method in class com.oracle.common.internal.net.ssl.SSLSocketChannel

10 Create and return a new SSLEngine.

optimisticFlush() - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

 Perform an optimistic flush, i.e.

15

parseArgs(String[]) - Static method in class

com.oracle.common.net.exabus.util.MessageBusTest

 Parse command line arguments into key value pairs.

parseDependencies(String, Properties) - Static method in class

20 com.oracle.common.net.exabus.util.MessageBusTest

 Parse the supplied properties object into a SimpleDepot.Dependencies object.

parseEndPoints(Depot, String) - Static method in class

com.oracle.common.net.exabus.util.MessageBusTest

 Parse a string containing a space seperated list of EndPoint names.

25 PeerX509TrustManager - Class in com.oracle.common.internal.security

 X509TrustManager implementation that requires the peer's certificate to be present in a configured key store.

PeerX509TrustManager(KeyStore) - Constructor for class

com.oracle.common.internal.security.PeerX509TrustManager

30 Create a new PeerTrustManager that requires the peer's certificate to be present in the given key store.

PeerX509TrustManagerFactory - Class in com.oracle.common.internal.security

 A factory for PeerX509TrustManager instances.

PeerX509TrustManagerFactory() - Constructor for class

35 com.oracle.common.internal.security.PeerX509TrustManagerFactory

potentialStreamClosedException(NullPointerException) - Method in class

com.oracle.common.io.BufferSequenceInputStream

Check if an NPE is caused by the stream being closed.

Predicate<T> - Interface in com.oracle.common.base

Predicate represents a boolean test of an object.

5 previous() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterListIterator

previous() - Method in enum com.oracle.common.io.Bandwidth.Magnitude

Obtain the previous order of Bandwidth.Magnitude (above this one).

previous() - Method in enum com.oracle.common.io.MemorySize.Magnitude

10 Obtain the previous order of MemorySize.Magnitude (above this one).

previous() - Method in enum com.oracle.common.util.Duration.Magnitude

Obtain the previous order of Duration.Magnitude (above this one).

previousIndex() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterListIterator

15 printHelp(PrintStream) - Static method in class

com.oracle.common.net.exabus.util.MessageBusTest

process() - Method in class com.oracle.common.internal.net.RunnableSelectionService

Perform service processing.

processPendingKeys() - Method in class

20 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelector

Update Selector ready set with ready keys added to the pending set from the underlying Selector.

processReads(boolean) - Method in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

25 Handle any incoming data.

processReads(boolean) - Method in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection

Handle any incoming data.

processRegistrations() - Method in class

30 com.oracle.common.internal.net.RunnableSelectionService

Process any pending registrations.

processRunnables() - Method in class

com.oracle.common.internal.net.RunnableSelectionService

Execute Runnable in the SelectionService thread

35 processWrites(boolean) - Method in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

Write the contents of the WriteQueue to the channel.

PROTOCOL_DELIMITER - Static variable in class

com.oracle.common.net.exabus.util.UrlEndPoint

The protocol delimiter

5 PROTOCOL_ID - Static variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider

The protocol identifier.

put(TK, TV) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterMap

10 putAll(Map<? extends TK, ? extends TV>) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterMap

read(ByteBuffer) - Method in class

15 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel

read(ByteBuffer[], int, int) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel

read(ByteBuffer[], int, int) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

20 read(ByteBuffer[]) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

read(ByteBuffer) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

read() - Method in class

25 com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadBatch

Process reads.

read(ByteBuffer) - Method in class com.oracle.common.internal.net.ssl.SSLSocketChannel

read(ByteBuffer[], int, int) - Method in class

30 com.oracle.common.internal.net.ssl.SSLSocketChannel

read(ByteBuffer) - Method in class com.oracle.common.internal.net.WrapperSocketChannel

read(ByteBuffer[], int, int) - Method in class

com.oracle.common.internal.net.WrapperSocketChannel

read() - Method in class com.oracle.common.io.BufferSequenceInputStream

35 read(byte[], int, int) - Method in class com.oracle.common.io.BufferSequenceInputStream

read() - Method in interface com.oracle.common.io.InputStreaming

Read the next byte of data from the InputStream.

read(byte[]) - Method in interface com.oracle.common.io.InputStreaming

Read some number of bytes from the input stream and store them into the passed array ab.

5 read(byte[], int, int) - Method in interface com.oracle.common.io.InputStreaming

Read up to cb bytes from the input stream and store them into the passed array ab starting at offset of.

read(EndPoint, long, BufferSequence, Object) - Method in interface
com.oracle.common.net.exabus.MemoryBus

10 Request a read from the peer's memory into the supplied BufferSequence.

READ_AHEAD_SIZE - Static variable in class

com.oracle.common.internal.net.socketbus.SocketMessageBus

The amount to attempt to read ahead by when reading from the socket.

readBoolean() - Method in class com.oracle.common.io.BufferSequenceInputStream

15 readByte() - Method in class com.oracle.common.io.BufferSequenceInputStream

readChar() - Method in class com.oracle.common.io.BufferSequenceInputStream

readDouble() - Method in class com.oracle.common.io.BufferSequenceInputStream

readEncrypted() - Method in class com.oracle.common.internal.net.ssl.SSLSocketChannel

Attempt to read from the network into the inbound encrypted buffer.

20 readFloat() - Method in class com.oracle.common.io.BufferSequenceInputStream

readFully(byte[]) - Method in class com.oracle.common.io.BufferSequenceInputStream

readFully(byte[], int, int) - Method in class

com.oracle.common.io.BufferSequenceInputStream

readHeader(ByteBuffer[], int, int) - Method in class

25 com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel

Transfer as many bytes as possible from the inbound header buffer to the supplied buffer

readInt() - Method in class com.oracle.common.io.BufferSequenceInputStream

readInternal(ByteBuffer[], int, int) - Method in class

com.oracle.common.internal.net.ssl.SSLSocketChannel

30 Attempt to read into the supplied buffers as per the general contract of
ScatteringChannel.read.

readLine() - Method in class com.oracle.common.io.BufferSequenceInputStream

Deprecated.

readLong() - Method in class com.oracle.common.io.BufferSequenceInputStream

35 readShort() - Method in class com.oracle.common.io.BufferSequenceInputStream

readUnsignedByte() - Method in class com.oracle.common.io.BufferSequenceInputStream

readUnsignedShort() - Method in class com.oracle.common.io.BufferSequenceInputStream

readUTF() - Method in class com.oracle.common.io.BufferSequenceInputStream

readyOps() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.ListenChannel

5 readyOps() - Method in interface

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedChannel

Return the operations that can be satisfied by already buffered data.

readyOps() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedServerSocketChannel

10 I

readyOps() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel

readyOps() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel.Socket

15 etSelectionKey

readyOps() - Method in class

com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey

readyOps() - Method in class

com.oracle.common.internal.net WrapperSelector WrapperSelectionKey

20 register(SelectableChannel, SelectionService.Handler) - Method in class

com.oracle.common.internal.net.HashSelectionService

Register a channel with the service.

register(int, MultiplexedSocketProvider.MultiplexedServerSocketChannel) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.Listener

25 Register an acceptor queue with a sub-port on this listener

register(AbstractSelectableChannel, int, Object) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelector

register(SelectableChannel, SelectionService.Handler) - Method in class

com.oracle.common.internal.net.MultiProviderSelectionService

30 Register a channel with the service.

register(SelectableChannel, SelectionService.Handler) - Method in class

com.oracle.common.internal.net.ResumableSelectionService

Register a channel with the service.

register(SelectableChannel, SelectionService.Handler) - Method in class

35 com.oracle.common.internal.net.RunnableSelectionService

Register a channel with the service.

register(AbstractSelectableChannel, int, Object) - Method in class

com.oracle.common.internal.net.WrapperSelector

register(SelectableChannel, SelectionService.Handler) - Method in interface

com.oracle.common.net.SelectionService

- 5 Register a channel with the service.

registerDriver(Driver) - Method in class com.oracle.common.net.exabus.util.SimpleDepot

Register a Driver with the Depot.

registerInternal(WrapperSelector, int, Object) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel

- 10 registerInternal(WrapperSelector, int, Object) - Method in class

com.oracle.common.internal.net.ssl.SSLSocketChannel

Register with the specified selector.

registerInternal(WrapperSelector, int, Object) - Method in interface

com.oracle.common.internal.net.WrapperSelector.WrapperSelectableChannel

- 15 Register with the specified selector.

registerInternal(WrapperSelector, int, Object) - Method in class

com.oracle.common.internal.net.WrapperServerSocketChannel

Register with the specified selector.

registerInternal(WrapperSelector, int, Object) - Method in class

- 20 com.oracle.common.internal.net.WrapperSocketChannel

Register with the specified selector.

release(ByteBuffer) - Method in class com.oracle.common.internal.io.AbstractBufferManager

Release a formerly acquired ByteBuffer.

release(ByteBuffer) - Method in class com.oracle.common.internal.io.CheckedBufferManager

- 25 Release a formerly acquired ByteBuffer.

release(ByteBuffer) - Method in interface

com.oracle.common.internal.io.SegmentedBufferManager.BufferAllocator

Release a ByteBuffer back to the allocator.

release(ByteBuffer) - Method in class

- 30 com.oracle.common.internal.io.SegmentedBufferManager

release(ByteBuffer) - Method in class com.oracle.common.internal.io.WrapperBufferManager

release(EndPoint) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus

Release an EndPoint from this bus.

- 35 release(ByteBuffer) - Method in interface com.oracle.common.io.BufferManager

Release a formerly acquired ByteBuffer.

release(EndPoint) - Method in interface com.oracle.common.net.exabus.Bus

Release an EndPoint from this bus.

release(EndPoint) - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.EchoBus

5 remove() - Method in class com.oracle.common.collections.AbstractStableIterator

remove(Object) - Method in class com.oracle.common.collections.AbstractStableIterator

Remove the specified item.

remove(Object) - Method in class com.oracle.common.collections.ChainedIterator

Remove the specified item.

10 remove(Object) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterCollection

remove() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet.ConverterIterator

remove(Object) - Method in class

15 com.oracle.common.collections.ConverterCollections.ConverterEntrySet

remove() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEnumerator

Remove the last-returned element that was returned by the Iterator.

remove(int) - Method in class

20 com.oracle.common.collections.ConverterCollections.ConverterList

remove() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterListIterator

remove(Object) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterMap

25 remove(Object) - Method in class com.oracle.common.collections.UnmodifiableSetCollection

removeAll(Collection<?>) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterCollection

removeAll(Collection<?>) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet

30 removeAll(Collection<?>) - Method in class

com.oracle.common.collections.UnmodifiableSetCollection

removeFlushable(AbstractSocketBus.Connection) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus

Remove a Connection from the flushable set.

35 removeReceipt() - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

Remove the next receipt from the queue and return it as a RECEIPT event.

reset() - Method in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection.WriteBatch

- 5 Reset the batch, recycling any recyclable data

reset() - Method in class com.oracle.common.io.BufferSequenceInputStream

reset() - Method in interface com.oracle.common.io.InputStreaming

Rewind this stream to the position at the time the InputStreaming.mark(int) method was last called on this InputStream.

- 10 resolveAddress(String) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider

Resolve the specified address.

resolveAddress(String) - Method in class com.oracle.common.net.InetSocketProvider

Resolve the specified address.

- 15 resolveAddress(String) - Method in class com.oracle.common.net.SdpSocketProvider

resolveAddress(String) - Method in interface com.oracle.common.net.SocketProvider

Resolve the specified address.

resolveAddress(String) - Method in class com.oracle.common.net.SSLSocketProvider

Resolve the specified address.

- 20 resolveEndPoint(String, ServerSocket) - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver

Resolve the EndPoint which the specified service socket is bound to.

resolveEndPoint(String) - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver

- 25 Resolve the EndPoint for the specified canonical name.

resolveEndPoint(String) - Method in interface com.oracle.common.net.exabus.Depot

Resolve the EndPoint for the specified canonical name.

resolveEndPoint(String) - Method in interface com.oracle.common.net.exabus.spi.Driver

Resolve the EndPoint for the specified canonical name.

- 30 resolveEndPoint(String) - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.EchoBus.EchoDriver

resolveEndPoint(String) - Method in class com.oracle.common.net.exabus.util.SimpleDepot

Resolve the EndPoint for the specified canonical name.

resolveSocketEndPoint(String) - Method in class

- 35 com.oracle.common.internal.net.socketbus.SocketBusDriver

Resolve the supplied canonical name into a SocketEndPoint.

ResumableSelectionService - Class in com.oracle.common.internal.net

The ResumableSelectionService will automatically allocate and release threads to handle the SelectionService.

ResumableSelectionService(ThreadFactory) - Constructor for class

5 com.oracle.common.internal.net.ResumableSelectionService

Construct a RestartableSelectionService.

ResumableSelectionService.ServiceFactory - Class in com.oracle.common.internal.net

Factory for producing ResumableSelectionServices.

ResumableSelectionService.ServiceFactory(ThreadFactory, long) - Constructor for class

10 com.oracle.common.internal.net.ResumableSelectionService.ServiceFactory

Construct a Service Factory which will produce ResumableSelectionServices with a given configuration.

retainAll(Collection<?>) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterCollection

15 retainAll(Collection<?>) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet

retainAll(Collection<?>) - Method in class

com.oracle.common.collections.UnmodifiableSetCollection

returnReceipts(int) - Method in class

20 com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

Return a series of receipts as events.

run() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.Listener.Switcher

Run the accept timeout task

25 run() - Method in class com.oracle.common.internal.net.ResumableSelectionService

run() - Method in class com.oracle.common.internal.net.RunnableSelectionService

run() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

run() - Method in class com.oracle.common.net.exabus.util.MessageBusTest.Transmitter

30 RunnableSelectionService - Class in com.oracle.common.internal.net

RunnableSelectionService is a single-threaded SelectionService implementation.

RunnableSelectionService() - Constructor for class

com.oracle.common.internal.net.RunnableSelectionService

runProtocol() - Method in class com.oracle.common.internal.net.ssl.SSLSocketChannel

35 Run the next stage of the SSL handshake protocol if any.

- s_aBuffEmpty - Static variable in class
com.oracle.common.internal.net.ssl.SSLSocketChannel
A shared empty byte buffer.
- 5 s_cbMsgMax - Static variable in class com.oracle.common.net.exabus.util.MessageBusTest
The maximum message size
- s_cbMsgMin - Static variable in class com.oracle.common.net.exabus.util.MessageBusTest
The minimum message size.
- s_cErrors - Static variable in class com.oracle.common.net.exabus.util.MessageBusTest
10 Count of the number of errors encountered during the test.
- s_cMillisIdentifyDefault - Static variable in class
com.oracle.common.internal.net.MultiplexedSocketProvider.DefaultDependencies
The default accept timeout.
- s_fFlowControl - Static variable in class
15 com.oracle.common.net.exabus.util.MessageBusTest
Switch governing if flow control events should be respected.
- s_fReceipts - Static variable in class com.oracle.common.net.exabus.util.MessageBusTest
True if receipts should be used.
- s_fVerbose - Static variable in class com.oracle.common.net.exabus.util.MessageBusTest
20 Flag for verbose logging.
- s_manager - Static variable in class com.oracle.common.net.exabus.util.MessageBusTest
The BufferManager to use in the test.
- s_nBacklogDefault - Static variable in class
com.oracle.common.internal.net.MultiplexedSocketProvider.DefaultDependencies
25 The default backlog value.
- s_nLatencyFreq - Static variable in class
com.oracle.common.net.exabus.util.MessageBusTest
The frequency (in messages), at which latency will be sampled.
- s_rand - Static variable in class com.oracle.common.net.exabus.util.MessageBusTest
30 Shared randomizer.
- safeAdjust(boolean) - Method in class
com.oracle.common.internal.net.socketbus.SharedBuffer
Perform a safe increment or decrement of the reference counter.
- SafeSelectionHandler<C extends java.nio.channels.SelectableChannel> - Class in
35 com.oracle.common.net
SafeChannelHandler is an abstract SelectorService.Handler implementation with

additional error handling support.

SafeSelectionHandler(C) - Constructor for class

com.oracle.common.net.SafeSelectionHandler

Construct a SafeChannel for the specified channel.

5 scheduleDisconnect(Throwable) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

Schedule a disconnect.

scheduleShutdown(Throwable, boolean) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

10 Register a Runnable with the SelectionService to perform the disconnect logic and optionally release it.

scheduleTask(Runnable, long) - Static method in class

com.oracle.common.internal.net.RunnableSelectionService

Schedule a task for future execution.

15 scheduleTask(Runnable, long) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus

Schedule a task for future execution.

SDP_MEMORY_BUS_PROTOCOL - Static variable in class

com.oracle.common.net.exabus.util.SimpleDepot

20 Protocol name for the SDP memory bus.

SDP_MESSAGE_BUS_PROTOCOL - Static variable in class

com.oracle.common.net.exabus.util.SimpleDepot

Protocol name for the SDP message bus.

SDP_SECURE_MEMORY_BUS_PROTOCOL - Static variable in class

25 com.oracle.common.net.exabus.util.SimpleDepot

Protocol name for the SSL protected SDP memory bus.

SDP_SECURE_MESSAGE_BUS_PROTOCOL - Static variable in class

com.oracle.common.net.exabus.util.SimpleDepot

Protocol name for the SSL protected SDP message bus.

30 SDP_SECURE_SOCKET_BUS - Static variable in class

com.oracle.common.net.exabus.util.SimpleDepot

Driver name for Secure SDP Socket Bus.

SDP_SOCKET_BUS - Static variable in class

com.oracle.common.net.exabus.util.SimpleDepot

35 Driver name for SDP Socket Bus.

SdpSocketProvider - Class in com.oracle.common.net

SdpSocketProvider produces SDP based sockets.

SdpSocketProvider() - Constructor for class com.oracle.common.net.SdpSocketProvider

SecurityProvider - Class in com.oracle.common.internal.security

Security Provider implementation that returns custom security services.

5 SegmentedBufferManager - Class in com.oracle.common.internal.io

/** The SegmentedBufferManager provides pooling of ByteBuffers.

SegmentedBufferManager(SegmentedBufferManager.BufferAllocator, long) - Constructor for class com.oracle.common.internal.io.SegmentedBufferManager

Default constructor.

10 SegmentedBufferManager(String, SegmentedBufferManager.BufferAllocator, int, int, int) - Constructor for class com.oracle.common.internal.io.SegmentedBufferManager

Create a SegmentedBufferManager.

SegmentedBufferManager.BufferAllocator - Interface in com.oracle.common.internal.io

A BufferAllocator is provides a mean for allocating ByteBuffers.

15 select(long) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelector

select() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelector

select() - Method in class com.oracle.common.internal.net.WrapperSelector

20 select(long) - Method in class com.oracle.common.internal.net.WrapperSelector

selectedKeys() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelector

selectedKeys() - Method in class com.oracle.common.internal.net.WrapperSelector

SelectionService - Interface in com.oracle.common.net

25 The SelectionService interface describes a service for selecting on channels.

SelectionService.Handler - Interface in com.oracle.common.net

Handler provides a pluggable callback which is invoked when the registered channel needs servicing.

SelectionServices - Class in com.oracle.common.net

30 The SelectionServices class provides helper methods related to SelectionServices.

SelectionServices() - Constructor for class com.oracle.common.net.SelectionServices

selectNow() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelector

selectNow() - Method in class com.oracle.common.internal.net.WrapperSelector

35 selector() - Method in class

com.oracle.common.internal.net.WrapperSelector.WrapperSelectionKey

send(BufferSequence, Object) - Method in class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection

Schedule a send of the specified BufferSequence.

send(EndPoint, BufferSequence, Object) - Method in class

5 com.oracle.common.internal.net.socketbus.SocketMessageBus

Send a message to an EndPoint.

send(EndPoint, BufferSequence, Object) - Method in interface

com.oracle.common.net.exabus.MessageBus

Send a message to an EndPoint.

10 send(EndPoint, BufferSequence, Object) - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.EchoBus

sendUrgentData(int) - Method in class com.oracle.common.internal.net.WrapperSocket

SERVER_CHANNEL_CLOSED_MARKER - Static variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedServerSocketChanne

15 I

Special SocketChannel that is added to the client channel queue to indicate that this ServerSocketChannel is closed.

set(V) - Method in interface com.oracle.common.base.Holder

Specify the held object.

20 set(V) - Method in class com.oracle.common.base.SimpleHolder

Specify the held object.

set(V) - Method in class com.oracle.common.base.VolatileHolder

Specify the held object.

set(int, T) - Method in class

25 com.oracle.common.collections.ConverterCollections.ConverterList

set(T) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterListIterator

set(ByteBuffer) - Method in class

com.oracle.common.internal.net.socketbus.SharedBuffer.Segment

30 Specify the held object.

set(ByteBuffer) - Method in class com.oracle.common.internal.net.socketbus.SharedBuffer

Specify the held object.

set(int, Object) - Method in class com.oracle.common.net.SocketSettings

Set the specified option.

35 setAutoFlushThreshold(long) - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Set threshold for auto flush

setBacklog(int) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.DefaultDependencies

Specify the backlog to use when binding the underlying ServerSocket.

5 setBufferManager(BufferManager) - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Specify the BufferManager to be used by this driver.

setCapacity(long) - Method in interface com.oracle.common.net.exabus.MemoryBus

Specify the local capacity of this MemoryBus.

10 setClientAuthenticationRequired(boolean) - Method in class

com.oracle.common.net.SSLSocketProvider.DefaultDependencies

Specify if client authentication is required.

setDataReadyOps(int) - Method in class

com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey

15 Set SelectionKey ops which apply to the SSLSelectableChannel but not necessarily to the delegate channel.

setDefaultMemoryBusEndPoint(String) - Method in class

com.oracle.common.net.exabus.util.SimpleDepot.DefaultDependencies

Specify the default MemoryBus EndPoint name.

20 setDefaultMemoryBusEndPoint(String) - Method in interface

com.oracle.common.net.exabus.util.SimpleDepot.Dependencies

Specify the default MemoryBus EndPoint name.

setDefaultMessageBusEndPoint(String) - Method in class

com.oracle.common.net.exabus.util.SimpleDepot.DefaultDependencies

25 Specify the default MessageBus EndPoint name.

setDefaultMessageBusEndPoint(String) - Method in interface

com.oracle.common.net.exabus.util.SimpleDepot.Dependencies

Specify the default MessageBus EndPoint name.

setDelegate(SocketProvider) - Method in class

30 com.oracle.common.net.SSLSocketProvider.DefaultDependencies

Specify the SocketProvider to delegate to.

setDelegateProvider(SocketProvider) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.DefaultDependencies

Specify the SocketProvider to which the MultiplexedSocketProvider will delegate to.

35 setDepot(Depot) - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver

Set the depot associated with this driver.

setDepot(Depot) - Method in interface com.oracle.common.net.exabus.spi.Driver

Set the depot associated with this driver.

setDepot(Depot) - Method in class

5 com.oracle.common.net.exabus.util.MessageBusTest.EchoBus.EchoDriver

setDirectWriteThreadThreshold(int) - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Specify the direct write threshold.

setDrivers(Map<String, Driver>) - Method in class

10 com.oracle.common.net.exabus.util.SimpleDepot.DefaultDependencies

Specify the set of Drivers to use in this Depot, keyed by a descriptive name.

setDrivers(Map<String, Driver>) - Method in interface

com.oracle.common.net.exabus.util.SimpleDepot.Dependencies

Specify the set of Drivers to use in this Depot, keyed by a descriptive name.

15 setEnabledCipherSuites(String[]) - Method in class

com.oracle.common.net.SSLSocketProvider.DefaultDependencies

Specify the enabled cipher suites.

setEventCollector(Collector<Event>) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus

20 Register a collector which will receive events for this Bus.

setEventCollector(Collector<Event>) - Method in interface

com.oracle.common.net.exabus.Bus

Register a collector which will receive events for this Bus.

setEventCollector(Collector<Event>) - Method in class

25 com.oracle.common.net.exabus.util.MessageBusTest.EchoBus

setExecutor(Executor) - Method in class

com.oracle.common.net.SSLSocketProvider.DefaultDependencies

Specify the Executor to use.

setHostnameVerifier(HostnameVerifier) - Method in class

30 com.oracle.common.net.SSLSocketProvider.DefaultDependencies

Specify the HostnameVerifier.

setIdentificationTimeoutMillis(long) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.DefaultDependencies

Specify the identification timeout in milliseconds.

35 setIdleTimeout(long) - Method in class

com.oracle.common.internal.net.RunnableSelectionService

Set the duration the RunnableSelectionService.run() method should block with no registered keys before returning.

setKeepAlive(boolean) - Method in class com.oracle.common.internal.net.WrapperSocket

setLogger(Logger) - Method in class

5 com.oracle.common.internal.net.MultiplexedSocketProvider.DefaultDependencies

Specify the Logger to use.

setLogger(Logger) - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Specify the Logger to use.

10 setLogger(Logger) - Method in class

com.oracle.common.net.exabus.util.SimpleDepot.DefaultDependencies

Specify the Logger to use.

setLogger(Logger) - Method in class

com.oracle.common.net.SSLSocketProvider.DefaultDependencies

15 Specify the Logger to utilize.

setMaximumReceiptDelayMillis(long) - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Set maximum receipt ack delay

setMemoryBusProtocol(String) - Method in class

20 com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Specify the memory bus protocol name

setMessageBusProtocol(String) - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Specify the message bus protocol name

25 setNext(T) - Method in class com.oracle.common.collections.AbstractStableIterator

Specify the next object to provide from the Iterator.

setOOBInline(boolean) - Method in class com.oracle.common.internal.net.WrapperSocket

setOption(int, Object) - Method in class com.oracle.common.net.SocketSettings

setOptions(SocketOptions) - Method in class com.oracle.common.net.SocketSettings

30 Set any options indicated by the supplied SocketOptions into this SocketOptions.

setPerformancePreferences(int, int, int) - Method in class

com.oracle.common.internal.net.WrapperServerSocket

setPerformancePreferences(int, int, int) - Method in class

com.oracle.common.internal.net.WrapperSocket

35 setProtocolReadyOps(int) - Method in class

com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey

Specify the SelectionKey operations which are ready on the SSLSelectableChannel protocol but not necessarily to the delegate channel.

setReceiptRequestThreshold(long) - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

5 Set threshold for receipt requests

setReceiveBufferSize(int) - Method in class

com.oracle.common.internal.net.WrapperServerSocket

setReceiveBufferSize(int) - Method in class com.oracle.common.internal.net.WrapperSocket

setReuseAddress(boolean) - Method in class

10 com.oracle.common.internal.net.WrapperServerSocket

setReuseAddress(boolean) - Method in class

com.oracle.common.internal.net.WrapperSocket

setSelectionService(SelectionService) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.DefaultDependencies

15 Specify the SelectionService to use for IO processing.

setSelectionService(SelectionService) - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Specify the SelectionService to be used by this driver.

setSendBufferSize(int) - Method in class com.oracle.common.internal.net.WrapperSocket

20 setSocketAddressHasher(Hasher<? super SocketAddress>) - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Specify the SocketAddress Hasher to be used in comparing addresses.

setSocketOptions(SocketOptions) - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

25 Specify the SocketOptions to use.

setSocketProvider(SocketProvider) - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Specify the SocketProvider to use.

setSocketReconnectDelayMillis(long) - Method in class

30 com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Set reconnect interval for the Connection

setSoLinger(boolean, int) - Method in class com.oracle.common.internal.net.WrapperSocket

setSoTimeout(int) - Method in class com.oracle.common.internal.net.WrapperServerSocket

setSoTimeout(int) - Method in class com.oracle.common.internal.net.WrapperSocket

35 setSSLContext(SSLContext) - Method in class

com.oracle.common.net.SSLSocketProvider.DefaultDependencies

Specify the SSLContext to utilize.

setTcpNoDelay(boolean) - Method in class com.oracle.common.internal.net WrapperSocket

setTrafficClass(int) - Method in class com.oracle.common.internal.net WrapperSocket

setTransmitRate(long) - Method in class

5 com.oracle.common.net.exabus.util.MessageBusTest.Transmitter

Reset the transmit rate.

setValue(TV) - Method in class

com.oracle.common.collections.ConverterCollections.AbstractConverterEntry

SharedBuffer - Class in com.oracle.common.internal.net.socketbus

10 SharedBuffer holds a ByteBuffer, and releases it back to its BufferManager when its reference count reaches zero.

SharedBuffer(ByteBuffer, SharedBuffer.Disposer) - Constructor for class

com.oracle.common.internal.net.socketbus.SharedBuffer

Construct a SharedBuffer from a ByteBuffer and its associated BufferManager.

15 SharedBuffer.Disposer - Interface in com.oracle.common.internal.net.socketbus

Disposer used by the SharedBuffer to dispose ByteBuffer

SharedBuffer.Segment - Class in com.oracle.common.internal.net.socketbus

Segment represents a segment of a SharedBuffer.

SharedBuffer.Segment() - Constructor for class

20 com.oracle.common.internal.net.socketbus.SharedBuffer.Segment

Construct a holder for a shared buffer, around its current position to limit.

SharedBuffer.Segment(int, int) - Constructor for class

com.oracle.common.internal.net.socketbus.SharedBuffer.Segment

Construct a holder for a shared buffer.

25 shutdown() - Method in class com.oracle.common.internal.net.HashSelectionService

Shutdown the SelectionService.

shutdown() - Method in class com.oracle.common.internal.net.MultiProviderSelectionService

Shutdown the SelectionService.

shutdown() - Method in class com.oracle.common.internal.net.RunnableSelectionService

30 Shutdown the SelectionService.

shutdown() - Method in interface com.oracle.common.net.SelectionService

Shutdown the SelectionService.

shutdownInput() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocket

35 shutdownInput() - Method in class com.oracle.common.internal.net WrapperSocket

shutdownOutput() - Method in class com.oracle.common.internal.net WrapperSocket

signal(Object) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

Signal the connection.

signal(EndPoint, Object) - Method in class

5 com.oracle.common.internal.net.socketbus.AbstractSocketBus

signal(Object) - Method in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection

Schedule a signal.

signal(EndPoint, Object) - Method in interface com.oracle.common.net.exabus.MemoryBus

10 Signal a peer.

SimpleDepot - Class in com.oracle.common.net.exabus.util

SimpleDepot is a Depot of well-known bus drivers.

SimpleDepot() - Constructor for class com.oracle.common.net.exabus.util.SimpleDepot

Construct the Depot with default dependencies.

15 SimpleDepot(SimpleDepot.Dependencies) - Constructor for class

com.oracle.common.net.exabus.util.SimpleDepot

Construct the Depot from the specified dependencies.

SimpleDepot.DefaultDependencies - Class in com.oracle.common.net.exabus.util

DefaultDependencies provides a default implementation of the Depot's dependencies.

20 SimpleDepot.DefaultDependencies() - Constructor for class

com.oracle.common.net.exabus.util.SimpleDepot.DefaultDependencies

Construct a DefaultDependencies object.

SimpleDepot.DefaultDependencies(SimpleDepot.Dependencies) - Constructor for class

com.oracle.common.net.exabus.util.SimpleDepot.DefaultDependencies

25 Construct a DefaultDependencies object copying the values from the specified dependencies object.

SimpleDepot.Dependencies - Interface in com.oracle.common.net.exabus.util

Dependencies specifies all dependency requirements of the SimpleDepot.

SimpleEvent - Class in com.oracle.common.net.exabus.util

30 SimpleEvent(Event.Type, EndPoint) - Constructor for class

com.oracle.common.net.exabus.util.SimpleEvent

Construct a SimpleEvent.

SimpleEvent(Event.Type, EndPoint, Object) - Constructor for class

com.oracle.common.net.exabus.util.SimpleEvent

35 Construct a SimpleEvent.

SimpleHolder<V> - Class in com.oracle.common.base

SimpleHolder is a basic implementation of the Holder interface.

SimpleHolder() - Constructor for class com.oracle.common.base.SimpleHolder

Construct a SimpleHolder with no value.

SimpleHolder(V) - Constructor for class com.oracle.common.base.SimpleHolder

5 Construct a SimpleHolder with an initial value.

SingleBufferMessageEvent - Class in com.oracle.common.internal.net.socketbus

SingleBufferMessageEvent is an implementation of a Bus Event for Messages over a single SharedBuffer.

SingleBufferMessageEvent(SocketMessageBus.MessageConnection, SharedBuffer) -

10 Constructor for class com.oracle.common.internal.net.socketbus.SingleBufferMessageEvent

Construct a SingleBufferSequence around a single ByteBuffer.

SingleBufferSequence - Class in com.oracle.common.io

SingleBufferSequence is a thread-safe BufferSequence implementation which wraps a single ByteBuffer.

15 SingleBufferSequence(BufferManager, ByteBuffer) - Constructor for class com.oracle.common.io.SingleBufferSequence

Construct a SingleBufferSequence around a single ByteBuffer.

size() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterCollection

20 size() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet

size() - Method in class com.oracle.common.collections.ConverterCollections.ConverterMap

size() - Method in class com.oracle.common.collections.UnmodifiableSetCollection

skip(long) - Method in class com.oracle.common.io.BufferSequenceInputStream

25 skip(long) - Method in interface com.oracle.common.io.InputStreaming

Skips over up to the specified number of bytes of data from this InputStream.

skip(long) - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.SkipStream

Skip over the specified number of output bytes.

30 skipBytes(int) - Method in class com.oracle.common.io.BufferSequenceInputStream

socket() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedServerSocketChannel

socket() - Method in class com.oracle.common.internal.net.WrapperServerSocketChannel

35 socket() - Method in class com.oracle.common.internal.net.WrapperSocketChannel

SocketBusDriver - Class in com.oracle.common.internal.net.socketbus

SocketDriver is a base implementation for socket based busses.

SocketBusDriver(SocketBusDriver.Dependencies) - Constructor for class
com.oracle.common.internal.net.socketbus.SocketBusDriver

Construct a SocketDriver.

5 SocketBusDriver.DefaultDependencies - Class in com.oracle.common.internal.net.socketbus

SimpleDependencies provides a basic Dependencies implementation as well as default values where applicable.

SocketBusDriver.DefaultDependencies() - Constructor for class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

10 Construct a DefaultDependencies object.

SocketBusDriver.DefaultDependencies(SocketBusDriver.Dependencies) - Constructor for class com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Construct a DefaultDependencies object copying the values from the specified dependencies object

15 SocketBusDriver.Dependencies - Interface in com.oracle.common.internal.net.socketbus

Dependencies provides an interface by which the SocketBusDriver can be provided with its external dependencies.

SocketMessageBus - Class in com.oracle.common.internal.net.socketbus

SocketMessageBus is a reliable MessageBus implementation based upon sockets.

20 SocketMessageBus(SocketBusDriver, UrlEndPoint) - Constructor for class

com.oracle.common.internal.net.socketbus.SocketMessageBus

Construct a SocketMessageBus.

SocketMessageBus.MessageConnection - Class in

com.oracle.common.internal.net.socketbus

25 MessageConnection implements a reliable message connection,

SocketMessageBus.MessageConnection(UrlEndPoint) - Constructor for class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection

Create a MessageConnection for the specified peer.

SocketMessageBus.MessageConnection.ReadBatch - Class in

30 com.oracle.common.internal.net.socketbus

ReadBatch handles the reading and processing of the inbound byte stream.

SocketMessageBus.MessageConnection.ReadBatch() - Constructor for class

com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadBatch

35 SocketMessageBus.MessageConnection.ReadBatch.SharedBufferDisposer - Class in

com.oracle.common.internal.net.socketbus

SharedBufferDisposer disposes the shared buffer by first trying to add it to the reusable buffer reference in ReadBatch.

SocketMessageBus.MessageConnection.ReadBatch.SharedBufferDisposer() - Constructor for class

5 com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadBatch.SharedBufferDisposer

SocketMessageBus.MessageConnection.ReadBatch.TaskEvent - Class in com.oracle.common.internal.net.socketbus

10 TaskEvent is a wrapper around a normal event, but utilizes the mandatory dispose() call to run a number of tasks on behalf of the bus, hopefully from the application rather than the bus thread.

SocketMessageBus.MessageConnection.ReadBatch.TaskEvent(Event, Runnable...) - Constructor for class

15 com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadBatch.TaskEvent

SocketProvider - Interface in com.oracle.common.net

SocketProvider defines an interface for creating sockets.

Sockets - Class in com.oracle.common.net

Sockets provides static helper methods related to sockets.

20 Sockets() - Constructor for class com.oracle.common.net.Sockets

SocketSettings - Class in com.oracle.common.net

SocketSettings provides a means to configure the various aspects of Sockets.

SocketSettings() - Constructor for class com.oracle.common.net.SocketSettings

Construct an empty SocketOptions configuration.

25 SocketSettings(SocketOptions) - Constructor for class

com.oracle.common.net.SocketSettings

Construct a SocketOptions configuration based upon the supplied options.

SSLSelectorProvider - Class in com.oracle.common.internal.net.ssl

SSLSelectorProvider is a provider of Selectors for SSL based channels.

30 SSLSelectorProvider(SelectorProvider) - Constructor for class

com.oracle.common.internal.net.ssl.SSLSelectorProvider

SSLServerSocket - Class in com.oracle.common.internal.net.ssl

Wrapper server socket implementation that performs hostname verification during connect.

SSLServerSocket(ServerSocket, SSLSocketProvider) - Constructor for class

35 com.oracle.common.internal.net.ssl.SSLServerSocket

Create a new SSLServerSocket that delegates all operations to the given server socket.

SSLServerSocketChannel - Class in com.oracle.common.internal.net.ssl

SSLServerSocketChannel is a ServerSocketChannel which accepts SSL clients and returns SSLSocketChannels.

SSLServerSocketChannel(ServerSocketChannel, SSLSocketProvider) - Constructor for

5 class com.oracle.common.internal.net.ssl.SSLServerSocketChannel

Construct an SSLServerSocketChannel which wraps an un-secured ServerSocketChannel.

SSLSocket - Class in com.oracle.common.internal.net.ssl

Wrapper socket implementation that performs hostname verification during connect.

10 SSLSocket(Socket, SSLSocketProvider) - Constructor for class
com.oracle.common.internal.net.ssl.SSLSocket

Create a new SSLSocket that delegates all operations to the given socket.

SSLSocketChannel - Class in com.oracle.common.internal.net.ssl

SSLSocketChannel layers SSL security onto an existing un-secured Socket.

15 SSLSocketChannel(SocketChannel, SSLSocketProvider) - Constructor for class
com.oracle.common.internal.net.ssl.SSLSocketChannel

Construct an SSLSocketChannel which layers SSL protection onto the provided channel.

SSLSocketChannel.SSLSelectionKey - Class in com.oracle.common.internal.net.ssl

An SSL aware SelectionKey.

20 SSLSocketChannel.SSLSelectionKey(WrapperSelector, SelectionKey, Object) - Constructor
for class com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey

SSLSocketProvider - Class in com.oracle.common.net

SocketProvider that produces instances of socket and channel implementations which utilize SSL.

25 SSLSocketProvider() - Constructor for class com.oracle.common.net.SSLSocketProvider
Construct an SSLSocketProvider.

SSLSocketProvider(SSLSocketProvider.Dependencies) - Constructor for class
com.oracle.common.net.SSLSocketProvider

Construct an SSLSocketProvider.

30 SSLSocketProvider.DefaultDependencies - Class in com.oracle.common.net

DefaultDependencies is a basic implementation of the Dependencies interface providing "setter" methods for each property.

SSLSocketProvider.DefaultDependencies() - Constructor for class
com.oracle.common.net.SSLSocketProvider.DefaultDependencies

35 Construct a DefaultDependencies object.

SSLSocketProvider.DefaultDependencies(SSLSocketProvider.Dependencies) - Constructor

for class com.oracle.common.net.SSLSocketProvider.DefaultDependencies

Construct a DefaultDependencies object copying the values from the specified dependencies object

SSLSocketProvider.Dependencies - Interface in com.oracle.common.net

5 Dependencies specifies all dependency requirements of the SSLSocketProvider.

start() - Method in class

com.oracle.common.net.exabus.util.MessageBusTest.EventProcessor

subList(int, int) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterList

10 subMap(TK, TK) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterSortedMap

subSet(T, T) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterSortedSet

SUFFIXES - Variable in enum com.oracle.common.util.Duration.Magnitude

15 The suffixes that for the Duration.Magnitude.

tailMap(TK) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterSortedMap

20 tailSet(T) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterSortedSet

TCP_MEMORY_BUS_PROTOCOL - Static variable in class

com.oracle.common.net.exabus.util.SimpleDepot

Protocol name for the TCP memory bus.

25 TCP_MESSAGE_BUS_PROTOCOL - Static variable in class

com.oracle.common.net.exabus.util.SimpleDepot

Protocol name for the TCP message bus.

TCP_SECURE_MEMORY_BUS_PROTOCOL - Static variable in class

com.oracle.common.net.exabus.util.SimpleDepot

30 Protocol name for the SSL protected TCP memory bus.

TCP_SECURE_MESSAGE_BUS_PROTOCOL - Static variable in class

com.oracle.common.net.exabus.util.SimpleDepot

Protocol name for the SSL protected TCP message bus.

TCP_SECURE_SOCKET_BUS - Static variable in class

35 com.oracle.common.net.exabus.util.SimpleDepot

Driver name for Secure TCP Socket Bus.

TCP_SOCKET_BUS - Static variable in class

com.oracle.common.net.exabus.util.SimpleDepot

Driver name for TCP Socket Bus.

TcpSocketProvider - Class in com.oracle.common.net

5 TcpSocketProvider produces standard TCP sockets.

TcpSocketProvider() - Constructor for class com.oracle.common.net.TcpSocketProvider

ThreadLocalRandom - Class in com.oracle.common.util

This is an implementation of a highly concurrent Random.

ThreadLocalRandom() - Constructor for class com.oracle.common.util.ThreadLocalRandom

10 toArray() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterCollection

toArray(E[]) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterCollection

toArray() - Method in class

15 com.oracle.common.collections.ConverterCollections.ConverterEntrySet

toArray(T[]) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet

toArray() - Method in class com.oracle.common.collections.UnmodifiableSetCollection

toArray(T[]) - Method in class com.oracle.common.collections.UnmodifiableSetCollection

20 toBits(long) - Method in enum com.oracle.common.io.Bandwidth.Rate

Convert the specified number of units of this Bandwidth.Rate into a bits Bandwidth.Rate.

toBufferSequence() - Method in class com.oracle.common.io.BufferSequenceOutputStream

Close the stream and return its contents as a BufferSequence.

toString() - Method in class

25 com.oracle.common.collections.ConverterCollections.AbstractConverterEntry

toString() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterCollection

Return a String description for this collection.

toString() - Method in class

30 com.oracle.common.collections.ConverterCollections.ConverterEntrySet

toString() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterMap

toString() - Method in class com.oracle.common.internal.io.WrapperBufferManager

toString() - Method in class com.oracle.common.internal.net.DemultiplexedSocketProvider

35 toString() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSelector

- toString() - Method in class com.oracle.common.internal.net.RunnableSelectionService
- toString() - Method in class
com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection
- toString() - Method in class com.oracle.common.internal.net.socketbus.AbstractSocketBus
- 5 toString() - Method in class
com.oracle.common.internal.net.socketbus.MultiBufferMessageEvent
- toString() - Method in class
com.oracle.common.internal.net.socketbus.SingleBufferMessageEvent
- toString() - Method in class
- 10 com.oracle.common.internal.net.socketbus.SocketMessageBus.MessageConnection.ReadB
atch.TaskEvent
- toString() - Method in class com.oracle.common.internal.net.ssl.SSLServerSocket
- toString() - Method in class com.oracle.common.internal.net.ssl.SSLSocket
- toString() - Method in class
- 15 com.oracle.common.internal.net.ssl.SSLSocketChannel.SSLSelectionKey
- toString() - Method in class com.oracle.common.internal.net.ssl.SSLSocketChannel
- toString() - Method in class
com.oracle.common.internal.net WrapperSelector WrapperSelectionKey
- toString() - Method in class com.oracle.common.internal.net WrapperServerSocket
- 20 toString() - Method in class com.oracle.common.internal.net WrapperSocket
- toString(boolean) - Method in class com.oracle.common.io.Bandwidth
- Obtains a String representation of the Bandwidth (in {@link Rate#BITS}).
- toString() - Method in class com.oracle.common.io.Bandwidth
- toString(ByteBuffer) - Static method in class com.oracle.common.io Buffers
- 25 Return a String containing the remaining contents of the specified ByteBuffer.
- toString(boolean) - Method in class com.oracle.common.io.MemorySize
- Obtains a String representation of the MemorySize using the most appropriate
MemorySize.Magnitude to simplify the representation.
- toString() - Method in class com.oracle.common.io.MemorySize
- 30 toString() - Method in class com.oracle.common.net.exabus.util.SimpleEvent
- toString() - Method in class com.oracle.common.net.exabus.util.UrlEndPoint
- toString() - Method in class com.oracle.common.net.InetSocketAddress32
- Constructs a string representation of this InetSocketAddress32.
- toString() - Method in class com.oracle.common.net.SocketSettings
- 35 toString() - Method in class
com.oracle.common.net.SSLSocketProvider.DefaultDependencies

toString() - Method in class com.oracle.common.net.SSLSocketProvider

toString(boolean) - Method in class com.oracle.common.util.Duration

Obtains a String representation of the Duration using the most appropriate Duration.Magnitude to simplify the representation.

5 toString() - Method in class com.oracle.common.util.Duration

truncate(ByteBuffer) - Method in class

com.oracle.common.internal.io.AbstractBufferManager

Truncate a formerly allocated buffer, returning a buffer whose size more closely matches the amount of space used (as indicated by Buffer.remaining()) in the specified buffer.

10 truncate(ByteBuffer) - Method in class

com.oracle.common.internal.io.CheckedBufferManager

Truncate a formerly allocated buffer, returning a buffer whose size more closely matches the amount of space used (as indicated by Buffer.remaining()) in the specified buffer.

truncate(ByteBuffer) - Method in class

15 com.oracle.common.internal.io.SegmentedBufferManager

truncate(ByteBuffer) - Method in class

com.oracle.common.internal.io WrapperBufferManager

Truncate a formerly allocated buffer, returning a buffer whose size more closely matches the amount of space used (as indicated by Buffer.remaining()) in the specified buffer.

20 truncate(ByteBuffer) - Method in interface com.oracle.common.io.BufferManager

Truncate a formerly allocated buffer, returning a buffer whose size more closely matches the amount of space used (as indicated by Buffer.remaining()) in the specified buffer.

25 UnmodifiableSetCollection<E> - Class in com.oracle.common.collections

UnmodifiableSetCollection is a wrapper set that provides a read-only view of the underlying Sets.

UnmodifiableSetCollection(Set<E>...) - Constructor for class

com.oracle.common.collections.UnmodifiableSetCollection

30 Construct a UnmodifiableSetCollection

UrlEndPoint - Class in com.oracle.common.net.exabus.util

UrlEndPoint is an EndPoint formatted using URL like syntax.

UrlEndPoint(String, SocketProvider, Hasher<? super SocketAddress>) - Constructor for class com.oracle.common.net.exabus.util.UrlEndPoint

35 Construct a SocketEndPoint.

validate() - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.DefaultDependencies

Validate the dependencies object.

5 validate() - Method in class

com.oracle.common.internal.net.socketbus.SocketBusDriver.DefaultDependencies

Validate the supplied dependencies.

validate() - Method in class

com.oracle.common.net.exabus.util.SimpleDepot.DefaultDependencies

10 Validate the supplied dependencies.

validate() - Method in class

com.oracle.common.net.SSLSocketProvider.DefaultDependencies

Validate the dependencies.

validateAssociated(Associated) - Method in class

15 com.oracle.common.base.NaturalAssociator

Check if given Associated object generates a circular association.

validatePeer() - Method in class com.oracle.common.internal.net.ssl.SSLSocketChannel

Validate that the connected peer acceptable.

valueOf(String) - Static method in enum

20 com.oracle.common.internal.net.MultiplexedSocketProvider.WellKnownSubPorts

Returns the enum constant of this type with the specified name.

valueOf(String) - Static method in enum

com.oracle.common.internal.net.socketbus.AbstractSocketBus.BusState

Returns the enum constant of this type with the specified name.

25 valueOf(String) - Static method in enum

com.oracle.common.internal.net.socketbus.AbstractSocketBus.ConnectionState

Returns the enum constant of this type with the specified name.

valueOf(String) - Static method in enum

com.oracle.common.internal.net.socketbus.AbstractSocketBus.HandshakePhase

30 Returns the enum constant of this type with the specified name.

valueOf(String) - Static method in enum com.oracle.common.io.Bandwidth.Magnitude

Returns the enum constant of this type with the specified name.

valueOf(String) - Static method in enum com.oracle.common.io.Bandwidth.Rate

Returns the enum constant of this type with the specified name.

35 valueOf(String) - Static method in enum com.oracle.common.io.MemorySize.Magnitude

Returns the enum constant of this type with the specified name.

valueOf(String) - Static method in enum com.oracle.common.net.exabus.Event.Type

Returns the enum constant of this type with the specified name.

valueOf(String) - Static method in enum com.oracle.common.util.Duration.Magnitude

Returns the enum constant of this type with the specified name.

5 values() - Method in class

com.oracle.common.collections.ConverterCollections.ConverterMap

values() - Static method in enum

com.oracle.common.internal.net.MultiplexedSocketProvider.WellKnownSubPorts

Returns an array containing the constants of this enum type, in the order they are

10 declared.

values() - Static method in enum

com.oracle.common.internal.net.socketbus.AbstractSocketBus.BusState

Returns an array containing the constants of this enum type, in the order they are declared.

15 values() - Static method in enum

com.oracle.common.internal.net.socketbus.AbstractSocketBus.ConnectionState

Returns an array containing the constants of this enum type, in the order they are declared.

values() - Static method in enum

20 com.oracle.common.internal.net.socketbus.AbstractSocketBus.HandshakePhase

Returns an array containing the constants of this enum type, in the order they are declared.

values() - Static method in enum com.oracle.common.io.Bandwidth.Magnitude

Returns an array containing the constants of this enum type, in the order they are

25 declared.

values() - Static method in enum com.oracle.common.io.Bandwidth.Rate

Returns an array containing the constants of this enum type, in the order they are declared.

values() - Static method in enum com.oracle.common.io.MemorySize.Magnitude

30 Returns an array containing the constants of this enum type, in the order they are declared.

values() - Static method in enum com.oracle.common.net.exabus.Event.Type

Returns an array containing the constants of this enum type, in the order they are declared.

35 values() - Static method in enum com.oracle.common.util.Duration.Magnitude

Returns an array containing the constants of this enum type, in the order they are

declared.

verifyEndPoint(EndPoint) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus

Verify that the supplied EndPoint is a InetSocketAddress.

5 verifySDP() - Static method in class com.oracle.common.net.SdpSocketProvider

Verify that an SDP socket implementation is available.

verifyState(AbstractSocketBus.BusState) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus

Verify that the bus is in a given state.

10 VolatileHolder<V> - Class in com.oracle.common.base

VolatileHolder is a basic implementation of the Holder interface where the held object is referenced from a volatile reference.

VolatileHolder() - Constructor for class com.oracle.common.base.VolatileHolder

Construct a VolatileHolder with no value.

15 VolatileHolder(V) - Constructor for class com.oracle.common.base.VolatileHolder

Construct a VolatileHolder with an initial value.

wakeup() - Method in class

20 com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

Force the SelectionService to process this channel.

wakeup() - Method in class com.oracle.common.internal.net WrapperSelector

warnBufferSize(Object, String, int, int) - Static method in class

com.oracle.common.net.Sockets

25 Issue a warning regarding an undersized socket buffer.

warnReuseAddr(boolean) - Static method in class com.oracle.common.net.Sockets

Issue a warning regarding overriding SO_REUSEADDR

WELL_KNOWN_SUB_PORT_END - Static variable in class

com.oracle.common.internal.net.MultiplexedSocketProvider

30 The end of the well-known sub-port range.

wrapEntry(Map.Entry<FK, FV>) - Method in class

com.oracle.common.collections.ConverterCollections.ConverterEntrySet

Wrap an Entry from the Entry Set to make a Converter Entry.

wrapIterator(Iterator<Map.Entry<FK, FV>>) - Method in class

35 com.oracle.common.collections.ConverterCollections.ConverterEntrySet

Wrap an Iterator from the Entry Set to make a Converter Iterator.

WrapperBufferManager - Class in com.oracle.common.internal.io

WrapperBufferManager is a BufferManager wrapper.

WrapperBufferManager(BufferManager) - Constructor for class
com.oracle.common.internal.io.WrapperBufferManager

5 Create a new WrapperBufferManager.

WrapperSelector - Class in com.oracle.common.internal.net

WrapperSelector is a Selector implementation which delegates all calls to a delegate
Selector.

WrapperSelector(Selector, SelectorProvider) - Constructor for class

10 com.oracle.common.internal.net.WrapperSelector

Construct a WrapperSelector

WrapperSelector.KeySet - Class in com.oracle.common.internal.net

A layered set implementation used for key sets.

WrapperSelector.KeySet(Set) - Constructor for class

15 com.oracle.common.internal.net.WrapperSelector.KeySet

WrapperSelector.WrapperSelectableChannel - Interface in com.oracle.common.internal.net

An interface to be implemented by all channels which will be selectable using this
Selector.

WrapperSelector.WrapperSelectionKey - Class in com.oracle.common.internal.net

20 WrapperSelectionKey which delegates to a real SelectionKey.

WrapperSelector.WrapperSelectionKey(WrapperSelector, SelectionKey, Object) -
Constructor for class

com.oracle.common.internal.net.WrapperSelector.WrapperSelectionKey

WrapperServerSocket - Class in com.oracle.common.internal.net

25 Wrapper server socket which delegates all operations to a delegate socket.

WrapperServerSocket(ServerSocket) - Constructor for class

com.oracle.common.internal.net.WrapperServerSocket

Create a new ServerSocket that delegates all operations to the given server socket.

WrapperServerSocketChannel - Class in com.oracle.common.internal.net

30 Wrapper ServerSocketChannel implementation that delegates all operations to a delegate
ServerSocketChannel.

WrapperServerSocketChannel(ServerSocketChannel, SelectorProvider) - Constructor for
class com.oracle.common.internal.net.WrapperServerSocketChannel

WrapperSocket - Class in com.oracle.common.internal.net

35 Wrapper socket implementation that delegates all operations to a delegate socket.

WrapperSocket(Socket) - Constructor for class

com.oracle.common.internal.net.WrapperSocket

Create a new Socket that delegates all operations to the given socket.

WrapperSocketChannel - Class in com.oracle.common.internal.net

Wrapper SocketChannel implementation that delegates all operations to a delegate

5 SocketChannel.

WrapperSocketChannel(SocketChannel, SelectorProvider) - Constructor for class

com.oracle.common.internal.net.WrapperSocketChannel

wrapSocket(Socket) - Method in class

com.oracle.common.internal.net.DemultiplexedSocketProvider.DemultiplexedSocketChannel

10 wrapSocket(Socket) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel

Produce a wrapper around the specified socket.

wrapSocket(Socket, boolean) - Method in class

com.oracle.common.internal.net.ssl.SSLSocket

15 Wrap the supplied plain Socket as an SSLSocket.

wrapSocket(Socket) - Method in class

com.oracle.common.internal.net.ssl.SSLSocketChannel

Produce a wrapper around the specified socket.

wrapSocket(ServerSocket) - Method in class

20 com.oracle.common.internal.net.WrapperServerSocketChannel

Produce a wrapper around the specified socket.

wrapSocket(Socket) - Method in class

com.oracle.common.internal.net.WrapperSocketChannel

Produce a wrapper around the specified socket.

25 write(ByteBuffer) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel

write(ByteBuffer[], int, int) - Method in class

com.oracle.common.internal.net.MultiplexedSocketProvider.MultiplexedSocketChannel

write(ByteBuffer[], int, int) - Method in class

30 com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

write(ByteBuffer[]) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

write(ByteBuffer) - Method in class

com.oracle.common.internal.net.socketbus.AbstractSocketBus.Connection

35 write() - Method in class

com.oracle.common.internal.net.socketbus.BufferedSocketBus.BufferedConnection.WriteBat

ch

Attempt to write the batch to the connection.

write(ByteBuffer) - Method in class com.oracle.common.internal.net.ssl.SSLSocketChannel

write(ByteBuffer[], int, int) - Method in class

5 com.oracle.common.internal.net.ssl.SSLSocketChannel

write(ByteBuffer) - Method in class com.oracle.common.internal.net WrapperSocketChannel

write(ByteBuffer[], int, int) - Method in class

com.oracle.common.internal.net WrapperSocketChannel

write(int) - Method in class com.oracle.common.io.BufferSequenceOutputStream

10 write(byte[], int, int) - Method in class com.oracle.common.io.BufferSequenceOutputStream

write(EndPoint, long, BufferSequence, Object) - Method in interface

com.oracle.common.net.exabus.MemoryBus

Request a write into the peer's memory from the specified BufferSequence.

writeBoolean(boolean) - Method in class

15 com.oracle.common.io.BufferSequenceOutputStream

writeByte(int) - Method in class com.oracle.common.io.BufferSequenceOutputStream

writeBytes(String) - Method in class com.oracle.common.io.BufferSequenceOutputStream

writeChar(int) - Method in class com.oracle.common.io.BufferSequenceOutputStream

writeChars(String) - Method in class com.oracle.common.io.BufferSequenceOutputStream

20 writeDouble(double) - Method in class com.oracle.common.io.BufferSequenceOutputStream

writeEncrypted() - Method in class com.oracle.common.internal.net.ssl.SSLSocketChannel

Attempt to write the contents the outbound buffer to the network.

writeFloat(float) - Method in class com.oracle.common.io.BufferSequenceOutputStream

writeInt(int) - Method in class com.oracle.common.io.BufferSequenceOutputStream

25 writeInternal(ByteBuffer[], int, int) - Method in class

com.oracle.common.internal.net.ssl.SSLSocketChannel

Attempt to read into the supplied buffers as per the general contract of

GatheringChannel.write.

writeLong(long) - Method in class com.oracle.common.io.BufferSequenceOutputStream

30 writeShort(int) - Method in class com.oracle.common.io.BufferSequenceOutputStream

writeUTF(String) - Method in class com.oracle.common.io.BufferSequenceOutputStream

Claims:

What is claimed is:

- 5 1. A system for providing a messaging application program interface (API) for use in a computing environment such as a data center, middleware machine system or similar environment, comprising:
- a computing appliance which includes one or more processor nodes for executing one or more application environments;
 - 10 a communication fabric connecting the one or more processor nodes and the application environments executing thereon; and
 - a message bus implementation and messaging API that enables messaging within the computing appliance utilizing the communication fabric, including
 - enabling a first application environment at a sender to issue a request to
 - 15 communicate message data to a second application environment at a receiver,
 - allocating space in the sender's memory for storage of the message data,
 - communicating a notification to the receiver providing the location of the message data,
 - requesting by the receiver that the message data be retrieved from the location at
 - 20 the sender, and
 - transferring the message data from the sender to the receiver asynchronously with providing the message data to the second application environment and providing a receipt to the first application environment.
- 25 2. The system of claim 1, further comprising a remote direct memory access (RDMA) component positioned at or between the sender and the receiver, wherein the messaging API uses the RDMA component to
- receive a send operation for the message data,
 - schedule an RDMA write operation and release the send operation, and
 - 30 asynchronously schedule an RDMA read operation with the receipt to the first application environment.
3. The system of claim 1 or 2, further comprising a plurality of direct byte buffers, and a buffer manager under control of the message bus implementation, wherein upon receipt of the
- 35 first application environment at the sender issuing the request to communicate the message data to the second application environment at the receiver, the buffer manager allocates buffers of

memory within the direct byte buffers, to store the message data.

4. The system of any preceding claim, further comprising at the message bus implementation a collector for collecting events as they occur, and surfacing those events to applications in an application tier.

5. The system of any preceding claim, wherein said computing environment being a data center or middleware machine system, said one or more application environments being one or more middleware, application server or data grid, and the one or more middleware, application server, data grid, or similar application environments include one of a Coherence data grid and/or WebLogic application server component which an end-user application uses to communicate with the message bus implementation and messaging API.

6. A method for providing a messaging application program interface (API) for use in a computing environment such as a data center, middleware machine system or similar environment, comprising the steps of:

providing a computing appliance which includes one or more processor nodes for executing one or more application environments;

providing a communication fabric connecting the one or more processor nodes and the application environments executing thereon; and

providing a message bus implementation and messaging API that enables messaging within the computing appliance utilizing the communication fabric, including

enabling a first application environment at a sender to issue a request to communicate message data to a second application environment at a receiver,

allocating space in the sender's memory for storage of the message data, communicating a notification to the receiver providing the location of the message data,

requesting by the receiver that the message data be retrieved from the location at the sender, and

transferring the message data from the sender to the receiver asynchronously with providing the message data to the second application environment and providing a receipt to the first application environment.

7. The method of claim 6, further comprising providing a remote direct memory access (RDMA) component positioned at or between the sender and the receiver, wherein the messaging API uses the RDMA component to

receive a send operation for the message data,
schedule an RDMA write operation and release the send operation, and
asynchronously schedule an RDMA read operation with the receipt to the first application
environment.

5

8. The method of claim 6 or 7, further comprising providing a plurality of direct byte buffers,
and a buffer manager under control of the message bus implementation, wherein upon receipt of
the first application environment at the sender issuing the request to communicate the message
data to the second application environment at the receiver, the buffer manager allocates buffers
of memory within the direct byte buffers, to store the message data.

10

9. The method of any of claims 6 to 8, further comprising providing at the message bus
implementation a collector for collecting events as they occur, and surfacing those events to
applications in an application tier.

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10. The method of any of claims 6 to 8, wherein said computing environment being a data
center or middleware machine system, said one or more application environments being one or
more middleware, application server or data grid, and the one or more middleware, application
server, data grid, similar application environments include one of a Coherence data grid and/or
WebLogic application server component which an end-user application uses to communicate
with the message bus implementation and messaging API.

20

11. A non-transitory computer readable storage medium, including instructions stored
thereon, which when read and executed by a computer, cause the computer to perform the steps
comprising:

25

providing a computing appliance which includes one or more processor nodes for
executing one or more application environments;

providing a communication fabric connecting the one or more processor nodes and the
application environments executing thereon; and

30

providing a message bus implementation and messaging API that enables messaging
within the computing appliance utilizing the communication fabric, including

enabling a first application environment at a sender to issue a request to
communicate message data to a second application environment at a receiver,

allocating space in the sender's memory for storage of the message data,

35

communicating a notification to the receiver providing the location of the message
data,

requesting by the receiver that the message data be retrieved from the location at the sender, and

transferring the message data from the sender to the receiver asynchronously with providing the message data to the second application environment and providing a receipt to the first application environment.

12. A method for using a message bus implementation and messaging API that enables messaging within a computing appliance utilizing a communication fabric, said communication fabric connecting one or more processor nodes in and application environments executing on said computing appliance, said method comprising:

enabling a first application environment at a sender to issue a request to communicate a message data to a second application environment at a receiver;

allocating space in the sender's memory for storage of the message data, communicating a notification to the receiver providing the location of the message data;

requesting by the receiver that the message data be retrieved from the location at the sender; and

transferring the message data from the sender to the receiver asynchronously with providing the message data to second application environment and providing a receipt to the first application environment.

13. The method of claim 12, wherein a remote direct memory access (RDMA) component is positioned at or between the sender and the receiver, wherein the messaging API uses the RDMA component to

receive a send operation for the message data,

schedule an RDMA write operation and release the send operation, and

asynchronously schedule an RDMA read operation with the receipt to the first application environment.

14. The method of claim 12, wherein upon receipt of the first application environment at the sender issuing the request to communicate the message data to the second application environment at the receiver, a buffer manager allocates pools of memory within the direct byte buffers, to store the message data.

15. The method of claim 12, wherein at the message bus implementation further comprises a collector for collecting events as they occur, and surfacing those events to applications in an application tier.

16. A system for using a message bus implementation and messaging API that enables messaging within a computing appliance utilizing a communication fabric, said communication fabric connecting one or more processor nodes in and application environments executing on said computing appliance, said system comprising:

means for enabling a first application environment at a sender to issue a request to communicate a message data to a second application environment at a receiver;

means for allocating space in the sender's memory for storage of the message data, communicating a notification to the receiver providing the location of the message data;

means for requesting by the receiver that the message data be retrieved from the location at the sender; and

means for transferring the message data from the sender to the receiver asynchronously with providing the message data to second application environment and providing a receipt to the first application environment.

17. The system of claim 16, wherein a remote direct memory access (RDMA) component is positioned at or between the sender and the receiver, wherein the messaging API uses the RDMA component to

receive a send operation for the message data,

schedule an RDMA write operation and release the send operation, and

asynchronously schedule an RDMA read operation with the receipt to the first application environment.

18. The system of claim 16, wherein upon receipt of the first application environment at the sender issuing the request to communicate the message data to the second application environment at the receiver, pools of memory within the direct byte buffers is allocated by a buffer manager, to store the message data.

19. The system of claim 16, wherein the message bus implementation further comprises a collector for collecting events as they occur, and surfacing those events to applications in an application tier.

20. A system comprising:

a first node;

a second node; and

a communication fabric connecting the first and second nodes, wherein

the first node has a first messaging application program interface (API),
the second node has a second messaging API,
the first messaging API enables the first node

5 to issue a request to communicate a message data to the second node,
to allocate space in the first node's memory for storage of the message data,
to communicate a notification to the second node providing the location of the
message data, and

to transfer the message data from the first node to the second node
asynchronously with providing the message data to the receiver, and

10 the second messaging API enables the second node

to request that the message data be retrieved from the location at the first node,
and

to provides a receipt to the first node.

15 21. A computer program comprising instructions for execution by one or more processors,
wherein said instructions cause the one or more processor to perform the method of any of
claims 6 to 10.

22. A computer readable storage medium including the computer program of claim 21.

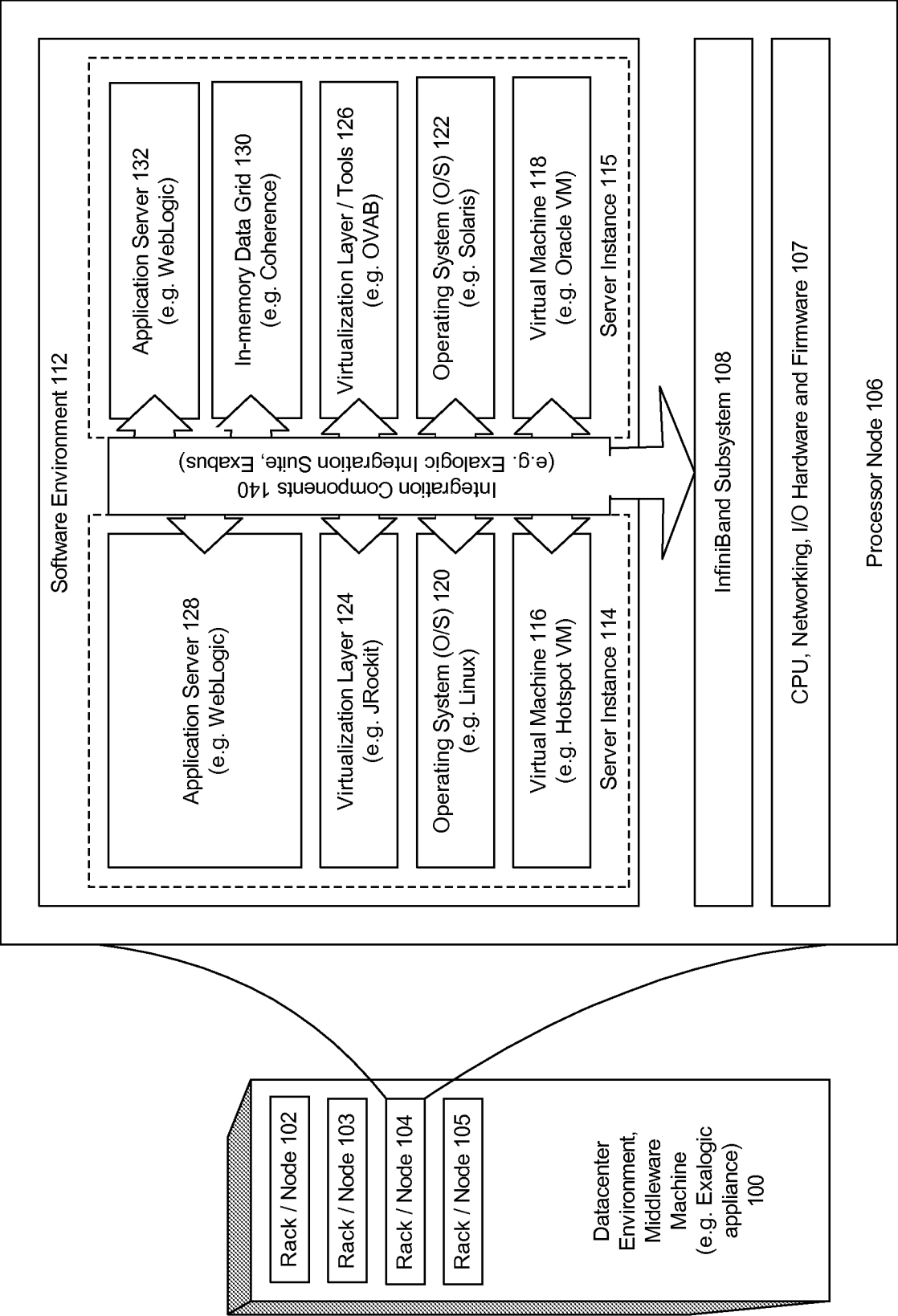
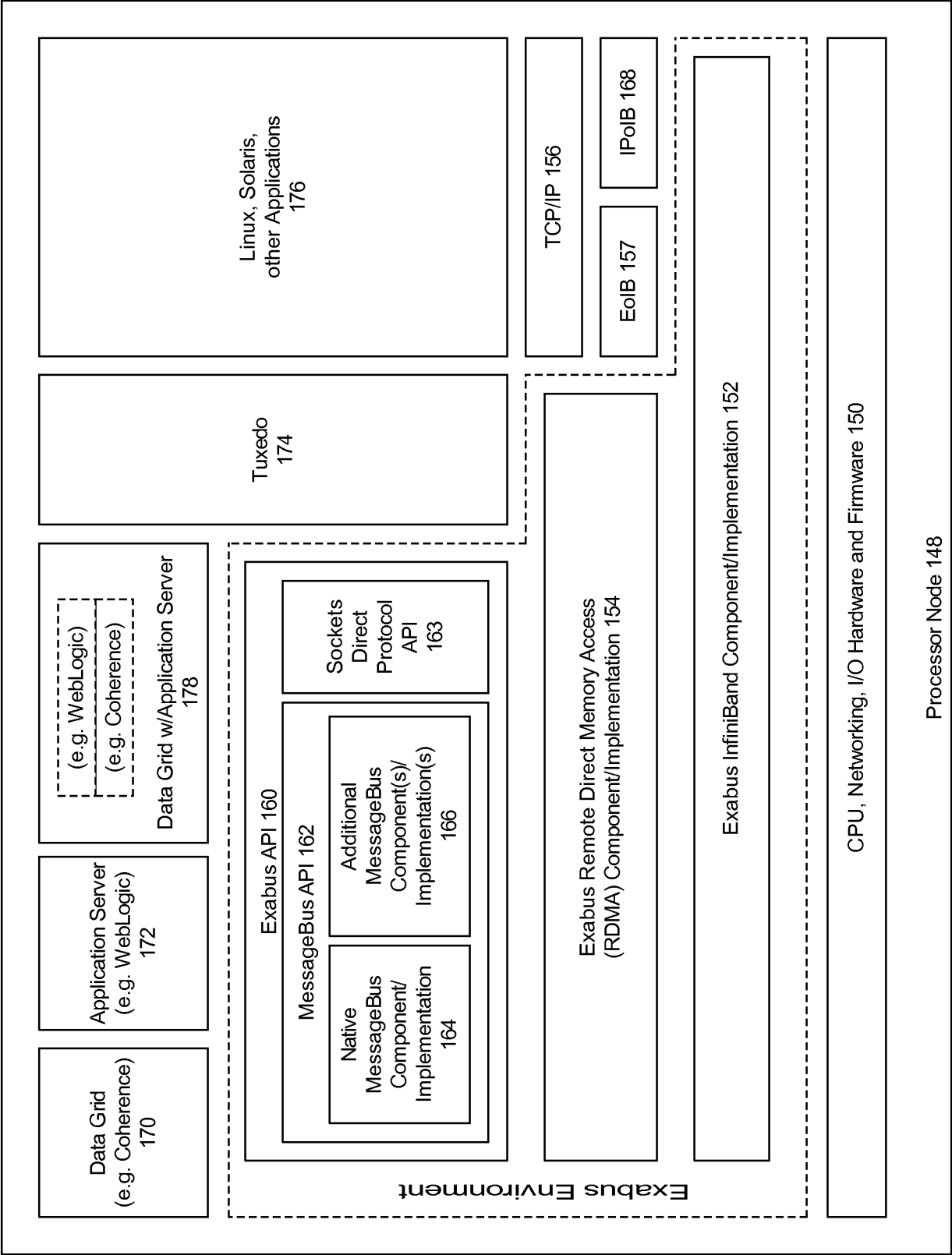


FIGURE 1



Processor Node 148

FIGURE 2

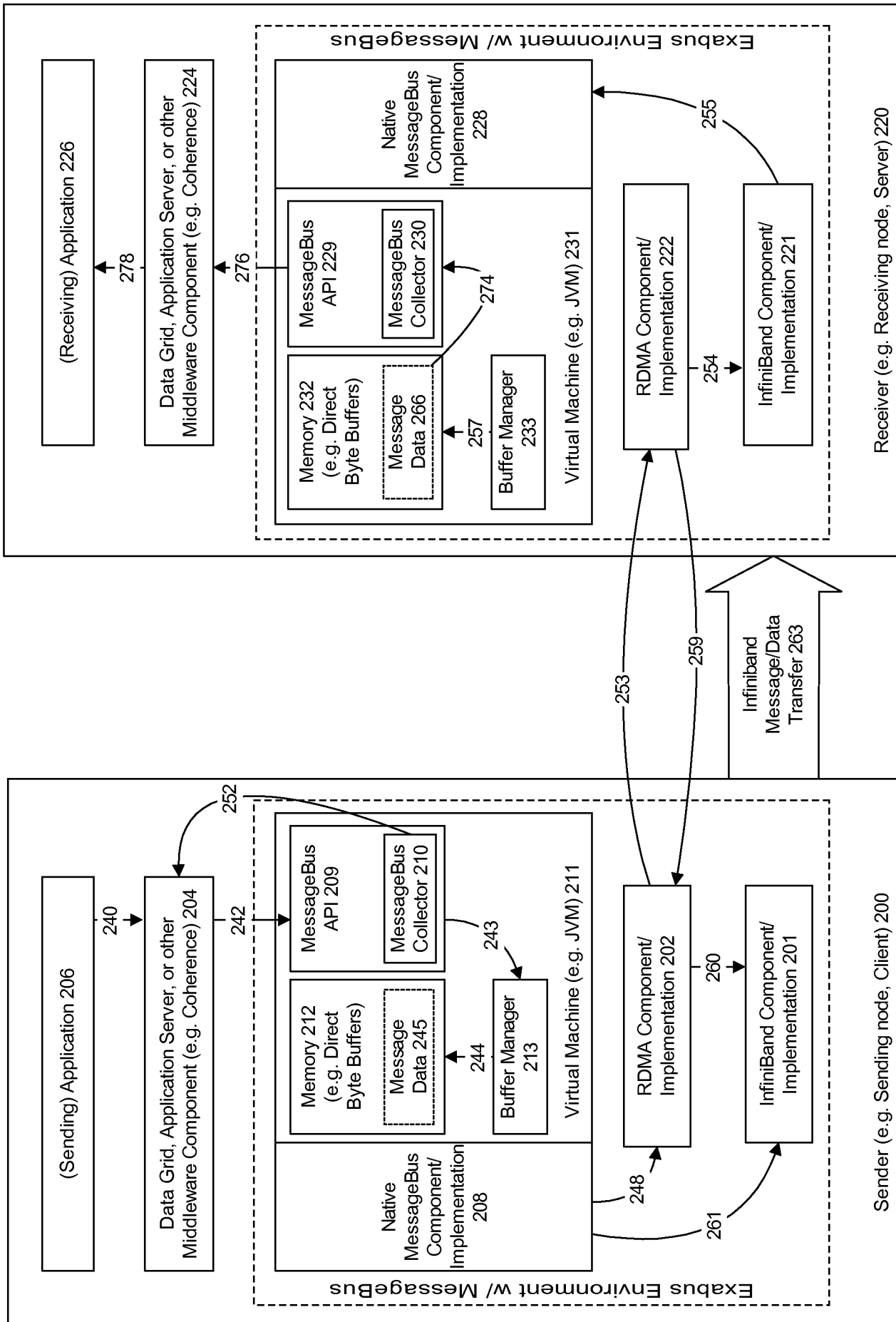


FIGURE 3

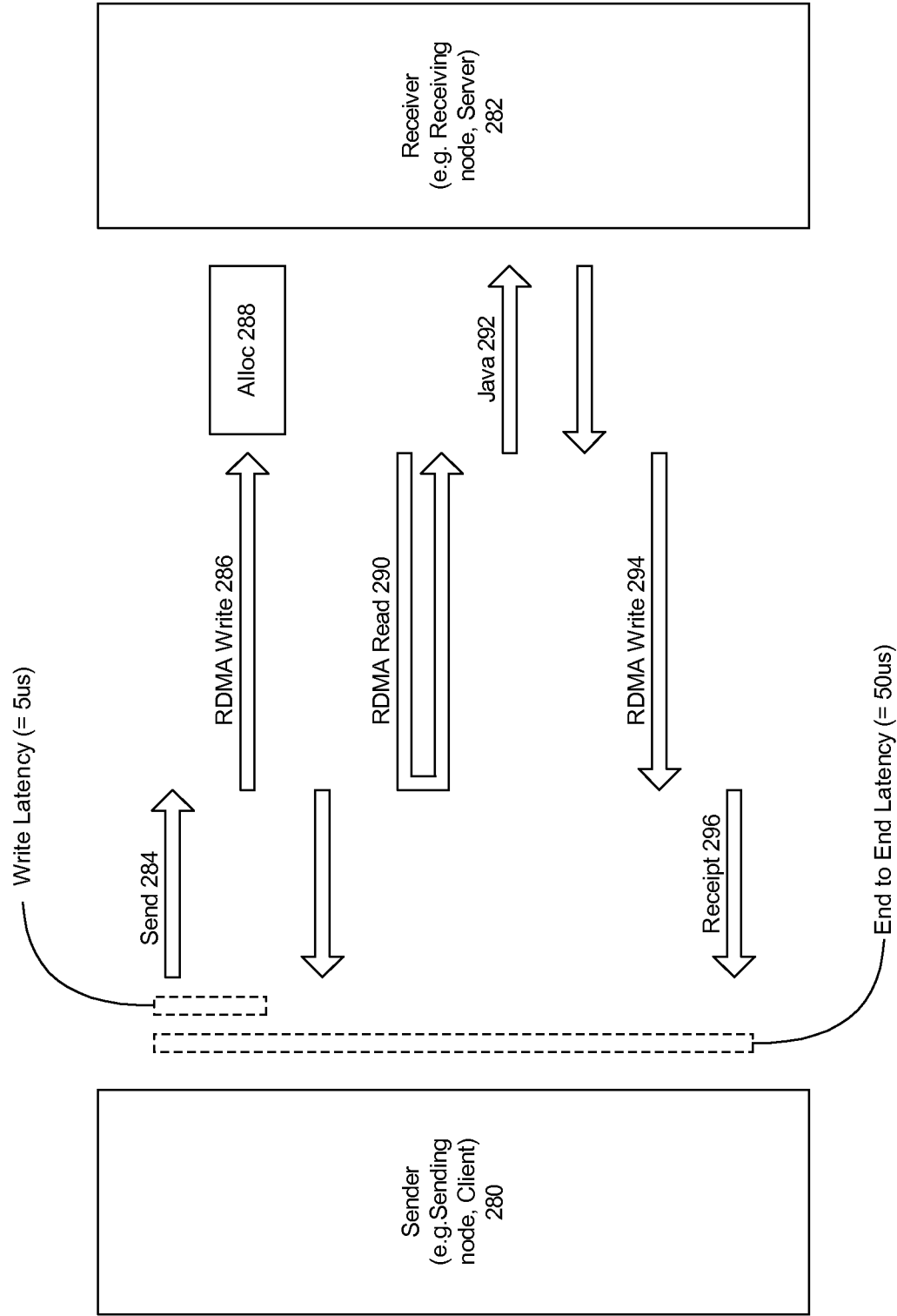
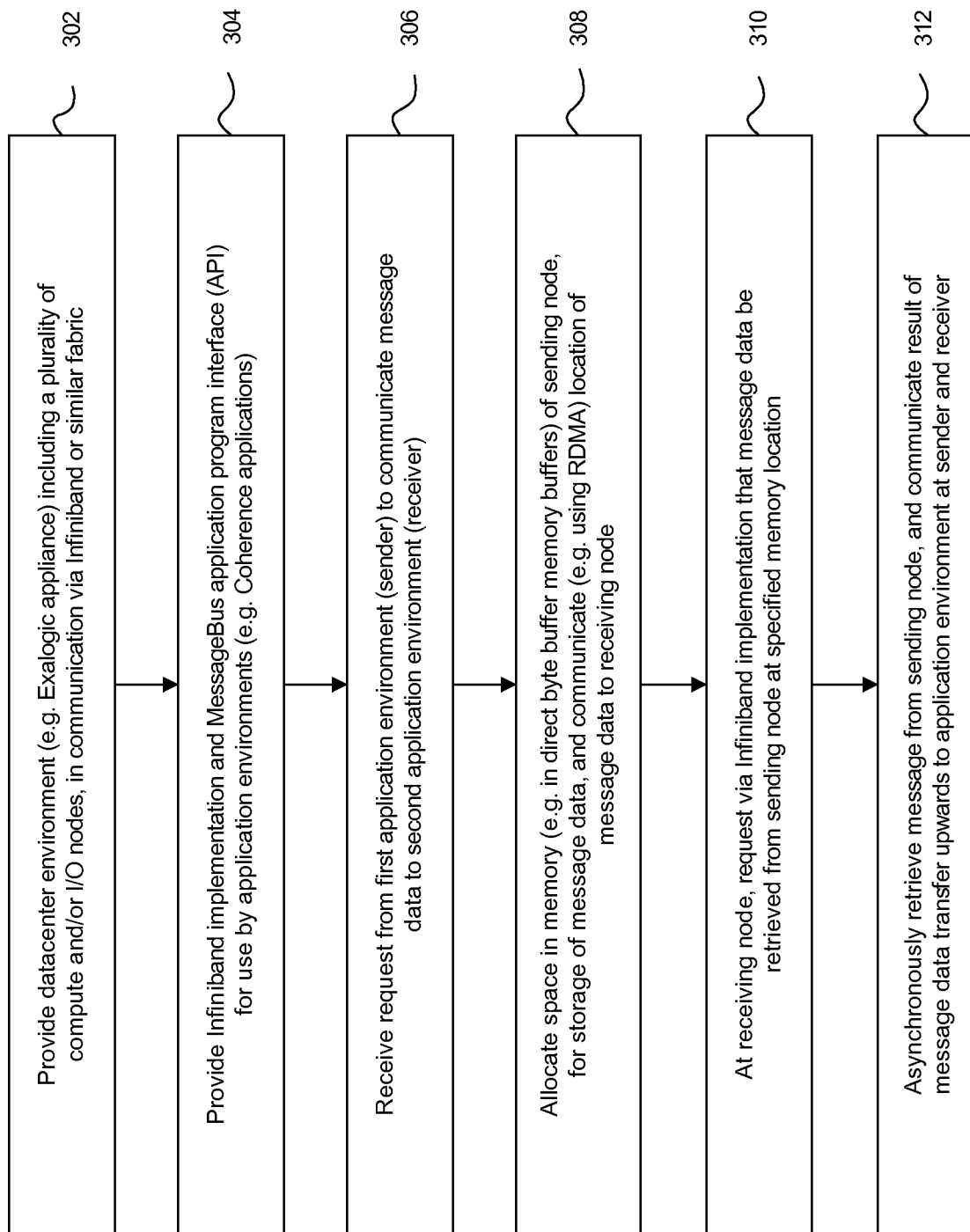


FIGURE 4

**FIGURE 5**

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2012/038178

A. CLASSIFICATION OF SUBJECT MATTER

INV. G06F12/06 G06F12/10 G06F9/54
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, INSPEC, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2011/106905 A1 (FREY PHILIP W [CH] ET AL) 5 May 2011 (2011-05-05) paragraphs [0001] - [0012] paragraphs [0025] - [0064] figures 1-6B claims 1-9 ----- -/--	1-22



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

29 August 2012

Date of mailing of the international search report

07/09/2012

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
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Authorized officer

Noll, Joachim

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2012/038178

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	SAYANTAN SUR ET AL: "RDMA read based rendezvous protocol for MPI over InfiniBand", PROCEEDINGS OF THE ELEVENTH ACM SIGPLAN SYMPOSIUM ON PRINCIPLES AND PRACTICE OF PARALLEL PROGRAMMING , PPOPP '06, 1 January 2006 (2006-01-01), page 32, XP55035735, New York, New York, USA DOI: 10.1145/1122971.1122978 ISBN: 978-1-59-593189-4 pages 32-36	1-22
A	----- JIE CAI ET AL: "Non-threaded and Threaded Approaches to MultiRail Communication with uDAPL", NETWORK AND PARALLEL COMPUTING, 2009. NPC '09. SIXTH IFIP INTERNATIONAL CONFERENCE ON, IEEE, PISCATAWAY, NJ, USA, 19 October 2009 (2009-10-19), pages 233-239, XP031564055, ISBN: 978-1-4244-4990-3 the whole document	1-22
A	----- TABOADA G L ET AL: "Efficient Java Communication Libraries over InfiniBand", HIGH PERFORMANCE COMPUTING AND COMMUNICATIONS, 2009. HPCC '09. 11TH IEEE INTERNATIONAL CONFERENCE ON, IEEE, PISCATAWAY, NJ, USA, 25 June 2009 (2009-06-25), pages 329-338, XP031491412, ISBN: 978-1-4244-4600-1 the whole document -----	1-22

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2012/038178

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US 2011106905	A1	05-05-2011	NONE
